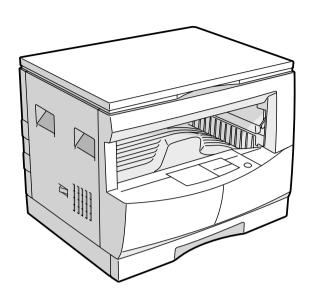
# SHARP SERVICE MANUAL

CODE: 00ZAR161//A1E



# **DIGITAL COPIER**

AR-160 MODEL AR-161

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Parts marked with " $\Lambda$ " is important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safty and performance of the set.

## Warning!

This product is a class A product.

If it is operated in households, offices or similar surroundings, it can produce radio interferences at other appliances, so that the user has to take adequate countermeasures.

**CLASS 1 LASER PRODUCT** 

LASER KLASSE 1

**LUOKAN 1 LASERLAITE** 

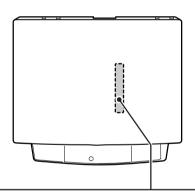
KLASS 1 LASERAPPARAT

#### **VAROITUS!**

LAITTEEN KÄYTTÄMINEN
MUULLA KUIN TÄSSÄ
KÄYTTÖOHJEESSA MAINITULLA
TAVALLA SAATTAA ALTISTAA
KÄYTTÄJÄN
TURVALLISUUSLUOKAN 1
YLITTÄVÄLLE
NÄKYMÄTTÖMÄLLE
LASERSÄTEILYLLE.

#### **VARNING**

OM APPARATEN ANVÄNDS PÅ
ANNAT SÄTT ÄN I DENNA
BRUKSANVISNING
SPECIFICERATS, KAN
ANVÄNDAREN UTSÄTTAS FÖR
OSYNLIG LASERSTRÅLNING,
SOM ÖVERSKRIDER GRÄNSEN
FÖR LASERKLASS 1.



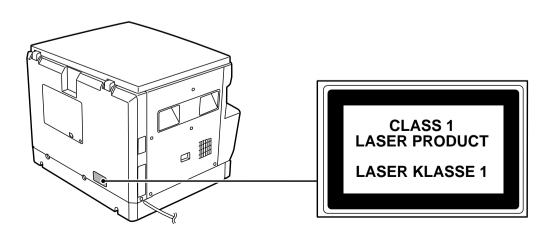


Laserstrahl

CAUTION INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED.
AVOID EXPOSURE TO BEAM.

VORSICHT UNSICHTBARE LASERSTRAHLUNG WENN ABDECKUNG GEÖFFNET UND SICHERHEITSVERRIEGELUNG ÜBERERÜCKT. NICHT DEM STRAHL AUSSETZEN. ADVARSEL USYNLIG LASERSTRÄLLING VED ÄBNING, NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGA UDSAETTELSE FOR STRÄLING.

ADVERSEL USVALIC LASEATRALING MÁ REXCEL ÁPILES OG SIKKERHEDSLÁS BRYTES UNIONA ERSÖNENNE FOR STRALLEN, VARNING SOYNLIG LASEASTRALINIG MÁ DEINA DEL ÁR ÓPPADA OCH SPÁRRAR ÁR KIRCHENFORLÓS. ÉTSLÁN HAR FARLÍG, ESTRALTA ÉL STRALLEN VARON LASEASTRALINICA MÁ TATOS ANTESESKA JOLFA LATTINA NÁKYMATÓNTÁ LASEASTRALINICA MÁ TATOS ONTESESKA.



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## [1] GENERAL

#### 1. General

This model is a digital personal copier produced with key words of "Comfort able copy, Clear copy, Easy copy" providing high copy performances and copy productivity.

## 2. Target user copy volume: Monthly average

Stand-alone copier: 2000~3000 sheets Compound machine: 4000~5000 sheets

## 3. Main features

## A. High-speed laser copying

- First-copy time is only 7.2 seconds (normal mode).
- Copying speed is 16 copies/min., which adapts to business use, allowing improvement of working efficiency.

## B. High-quality digital image

- High-quality copying at 600 dpi is performed.
- In addition to the automatic exposure mode, the manual exposure can be adjusted in five steps.
- The photo mode copying function allows clear copying of delicate halftone original images such as monochrome photos and color photos. Photo mode is adjustable in five steps

#### C. Substantial copying features

- Zoom copying from 50% to 200% in 1% increments can be performed.
- Continuous copying of maximum 99 sheets can also be performed.
- Useful special features such as the XY zoom, black and white reverse, and dual page copy are available.
- Toner save mode reduces toner consumption by approximately 10%.
- User programs allow setting/modification of functions for customer needs. Also the user programs allow the internal auditor to be

## D. Scan once/ Print many (Only AR-161 for **USA/Canada)**

The copier is equipped with a 1-page memory buffer. This memory allows the copier to scan an original 1 time only and make up to 99 copies. This feature allows for improved workflow, reduced operating noise from the copier and reduced wear and tear on the scanning mechanism, which provides for a higher reliability.

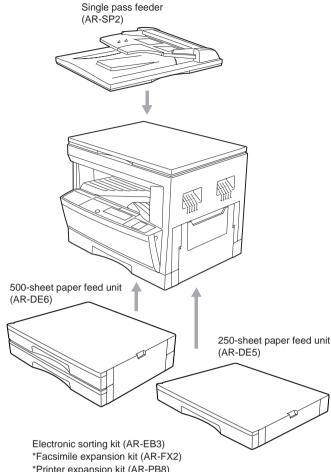
#### E. Optional features

- An optional single pass feeder (SPF) allows automatic document feeding of up to 30 sheets.
- An optional electronic sort board allows many useful copier features to be used. Multiple sets of copies can be sorted without the aid of a sorter and each set can be offset from the previous set. Also the erase, margin shift, and 4 in 1 and 2 in 1 functions are available. (To use the 2 in 1 and 4 in 1 and sort/group functions, an optional SPF is also needed.) (Offset only for AR-161)
- This copier can be used as a laser printer by installing an optional printer upgrade kit. (Depends on the destination)
- This copier can be used as a facsimile machine by installing an optional facsimile upgrade kit. (Depends on the destination)

#### F. Environmentally friendly design

- Paper output tray is housed in the copier for space saving.
- Preheat mode and auto power shut-off mode are provided to reduce power consumption in standby mode.

## 4. System configuration

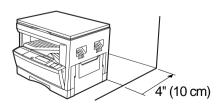


- \*Printer expansion kit (AR-PB8)
- \*LCD panel kit (AR-PA1)
- \*Job separator tray (AR-TR2)
- \*PS2 expansion kit (AR-PS1)
- \*There may be no setting for AR-FX2, AR-PB8, AR-PA1, AR-TR2, and AR-151 depending on the destination.)

## 5. Copier installation

Do not install your copier in areas that are:

- damp, humid, or very dusty
- exposed to direct sunlight
- poorly ventilated
- subject to extreme temperature or humidity changes, e.g., near an air conditioner or heater.
- Be sure to allow the required space around the machine for servicing and proper ventilation.



## [2] SPECIFICATIONS

## 1. Copy mode

## A. Type

Туре	Desk-top

## B. Copy speed

## (1) Basic speed

1 scan 1 copy	16 sheets/min	
1 scan multi copy	Not available	
	(Available for AR-161 for USA/Canada)	

Condition: Copy speed in the normal copy from all the paper feed ports including the manual paper feed port.

## (2) Continuous copy speed (Sheets/min)

Paper size		Normal	Enlargement (200%)	Reduction (50%)
	A3	9	9	9
	B4	10	10	10
AB	A4	16	16	14
system	A4R	12	12	12
	B5	16	16	16
	B5R	14	14	14
	11"×17"	9	9	9
	8.5" × 14"	10	10	10
Inch	8.5" × 13"	10	10	10
system	8.5" × 11"	16	16	14
	8.5" × 11"R	12	12	12
	8.5" × 5.5"	16	16	16

## C. First copy time

## (1) Basic speed

First copy time	7.2sec (A4, 8.5" × 11"/1st cassette/with OC)

#### D. Document

Max. document size	A3, 11" × 17"
Document reference position	Left side center
Detection (Platen)	None
Detection size	A3, B4, A4, A4R, B5, B5R 11" × 17", 8.5" × 14", 8.5" × 13", 8.5" × 11", 8.5" × 11"R, 8.5" × 5.5"

## (1) SPF/R-SPF

Standard/Option	Option SPF, AR-SP2 RSPF; Not available
Document load capacity	30 sheets (56 ~ 90g/m² equivalent)
Document size (Max. ~ Min.)	A3 ~ A5 11" × 17" ~ 8.5" × 5.5"
Document replacement speed	16 sheets/min (A4 normal copy)
Document set/Paper feed direction	Face up, Center reference, Paper feed from the top
Document weight	56 ~ 90g/m <sup>2</sup> , 15 ~ 23.9 lbs
Document size detection	On the document feed tray
Document mixture	Copy mode: Not Available

## E. Paper feed

Copy size	(Max. ~ Min.) Cassette: (A3 ~ A6)	
Paper feed system	1 cassette + Multi manual paper feed	
Paper feed capacity	250 × 1 (Paper feed tray) + 100 (Multi bypass feed tray)(56 ~ 80g/m² equivalent)	
Remaining quantity detection	Cassette section Empty detection available size detection by key inpu	
	Manual tray	Only empty detection available

## (1) Paper feed section of the copier

Paper feed size	A3, B4, A4, A4R, B5, B5R, A5 11" × 17", 8.5" × 14", 8.5" × 13", 8.5" × 11", 8.5" × 11"R, 8.5" × 5.5"
Side front	Front 1st step
Paper feed capacity	250 sheets (56 ~ 80g/m <sup>2</sup> equivalent)
Detection	Paper empty detection available, size detection (by key input)
Weight	56 ~ 80g/m²
Special paper	Recycled paper

## (2) Manual paper feed section

Paper feed size	A3 ~ A5
Paper feed capacity	100 sheets
Detection	Size detection not available, paper empty detection available
Weight	56 ~ 128g/m²
Special paper	Recycled paper, OHP film, labels
Paper feed	Single except for recycled paper

## (3) Option paper feed unit

	1-step paper feed	2-step paper feed	
	unit	unit	
Model	AR-DE5	AR-DE6	
Paper feed size	A3, B4, A4, A4	R, B5, B5R, A5	
	11" × 17", 8.5" × 14", 8.5" × 13", 8.5" × 11", 8.5" × 11"R, 8.5" × 5.5"		
Capacity	About 250 sheets ×	About 250 sheets ×	
(56 ~ 80g/m <sup>2</sup> )	1 step	2 steps	
Paper weight	56 ~ 80 g/m <sup>2</sup>		
Moisture preserving heater	Standard provision		
Detection	Paper empty detection, size detection (by key input)		
Paper size setting	User setting (by key input)		
External dimensions $(W \times D \times H)$	570 × 570 × 103mm	570 × 570 × 208mm	
Weight	About 8.5kg	About 14kg	
Special paper	Recycled paper		
Power	Supplied from the machine (5V/24V)		

## F. Job speed

ļ	S-S (1st step)	100% (document replacement rate)

Condition: With SPF

## G. Multi copy

Max. number of multi copy	99 sheets



## H. Warmup time

Warmup time	Approx. 35 sec (Condition: Standard condition)
Pre-heat	Available
Jam recovery time	Second (Condition: Left for 60 sec after door open. Standard condition, polygon motor not stopped)
	Second (Condition: Polygon motor stopped)

## I. Copy magnification ratio

Fixed magnification ratio	AB system: 50, 70, 81, 86, 100, 115, 122, 141, 200%
	Inch system: 50, 64, 77, 95, 100, 121, 129, 141, 200%
Zooming	50 ~ 200%
Independent zooming/vertical	Available (50 ~ 200%)
Independent zooming (horizontal)	Available (50 ~ 200%)

## J. Print density

Density mode	Auto/Manual/Photo
No. of manual adjustment	5 steps (Manual/Photo)
Toner save mode	Set by the user program

## K. Print area

	i e	i e	
Max. print area		Max.	416 × 293
		А3	$416 \times 293$
	A.D	B4	$360\times253$
	AB system	A4	206 × 293
		A4R	293 × 206
		B5	178 × 253
		B5R	253 × 178
	Inch system	Max.	428 × 275
		11" × 17"	428 × 275
		8.5" × 14"	352 × 212
		8.5" × 13"	212 × 326
		8.5"×11"	212 × 275
		8.5" × 11"R	275 × 212
		8.5" × 5.5"	212 × 136

## L. Void width

Void area	Lead edge 1 ~ 4mm, rear edge 4mm or less, both side 4mm or less
Image loss	Max. 4mm in total of lead edge and rear edge, max. 4mm in total of right and left edges (Normal copy)

## M. Auto duplex

Standard/Option	Not installable
-----------------	-----------------

## N. Paper exit/finishing

Paper exit section capacity	Face down 250 sheets
Job separator	Job separator, option (AR-TR2)
	Upper: FAX/Printer, Lower: Copier Upper: 100sheets, Lower 150sheets
Full detection	Available (Job separator upper step)
Finishing	Electronic sort board: Option (AR-EB3)
Electronic sort capacity	A4 standard document 60 sheets
Offset function	AR-161: Available
Staple function	None

## (1) Electronic sort board (Option)

Electronic sort	Sorting	60 sheets of A4 standard documents
	Grouping	60 sheets of A4 standard documents
Rotation copy	If there is paper of same size as the document, the image is rotated to copy even though the paper is set in the different direction from the document direction.	
2 in 1, 4 in 1	Copies of 2 pages or 4 pages are integrated into one surface. Divided by solid lines, (Selectable by the user program.)	
Edge erase	Images surrounding the document are erased when copying. (Adjustable in 0 ~ 20mm by the user program.)	
Center erase	The image at the center is erased when copying. (Adjustable in 0 ~ 20mm by the user program.)	
Margin shift	Binding margin is made at the left edge of the set documents.	

## O. Additional functions

APS*	0	(APS not available by flowing in during use of SPF)
AMS*	0	(AMS not available by flowing in during use of SPF)
Duplex	×	
Document count	×	
Sorter	Δ	When the electronic sort board installed.
Independent zooming	0	Vertical/Horizontal: 50 ~ 200%
1 set 2 copy	0	Enlargement inhibited, inhibited during the use of SPF
Binding margin	Δ	Shift width 9mm
Edge erase	Δ	Width 5mm (Adjustable 0 ~ 20mm)
Black-white	0	Whole surface only
reversion		
2 in 1, 4 in 1	Δ	
Rotation copy	Δ	
Memory copy	X	(AR-161 for USA/Canada: Available)
Pre-heat function	0	Conditions set by the user program
Auto power shut	0	Conditions set by the user program
off function		
Auto tray	0	
switching		
Message display	Δ	(FAX/Printer extension)
User program	0	
Total counter	0	

<sup>\*:</sup> By the document size set key

 $<sup>\</sup>triangle$ : When an option is installed

## P. machine composition

Model	
AR-160	Standard model
AR-161	Standard model (with shifter)
	(USA/Canada: with memory copy)

## (1) Option

Machina	Madal	Dower ounds
Machine	Model	Power supply
250 sheets paper feed unit	AR-DE5	Supplied by the copier.
500 sheets paper feed unit	AR-DE6	Supplied by the copier.
SPF	AR-SP2	Supplied by the copier
Electronic sorting kit	AR-EB3	Supplied by the copier.
Printer expansion kit	AR-PB8	Supplied by the copier.
Facsimile extension kit	AR-FX2	Supplied by the copier.
LCD panel kit	AR-PA1	Supplied by the copier.
(20 digits × 2 lines)		
Job separator tray	AR-TR2	
PS2 expantion kit	AR-PS1	
Extension memory for FAX	AR-MM5	
(2MB)		
Extension memory for FAX	AR-MM6	
(4MB)		
Extension memory for FAX	AR-MM7	
(8MB)		

## Q. Other specifications

Photoconductor type	OPC (Organic Photo Conductor)
Photoconductor drum dia.	30mm
Copy lamp	Xenon lamp
Developing system	Dry 2-component magnetic brush development
Charging system	Saw teeth charging
Transfer system	Non-contact (Corona) electrostatic transfer
Separation system	Natural separation
Fusing system	Heat roller + Separation pawl
Cleaning system	Contact blade

## R. Package form

Body	Body/Accessaries
------	------------------

## S. External view

External dimensions $(W \times D \times H)$	590 × 531 × 467 mm
Occupying area (W $\times$ D)	$590 \times 531$ mm (When the manual tray is installed.)
Weight	About 34.1kg

## T. Power source

Voltage	AC120V, 220V, 240V ± 15%
Frequency	50/60Hz common

## U. Power consumption

Max. power consumption	About 1.3KWh

## ★ EnergyStar standard (The second level conformity)

Pre-heat	About 60Wh
Auto power shut off	About 4.8Wh

## V. Reliability

Target users	Stand-alone copier	Monthly average 2,000 ~ 3,000 copies
	Compound machine	Monthly average 4,000 ~ 5,000 copies

## W. Noise

Noise	BA standard	

## X. Digital performance

Resolution	Reading	400 dpi	
	Writing	600 dpi	
Gradation	Reading	256 gradations	
	Writing	Binary	

## [3] CONSUMABLE PARTS

## 1. Supply system table

## A. USA, CANADA

NO	Name	Content		Life	Model name	Package	Remark
1	Developer cartridge (Black)	Toner/developer cartridge (Toner 610g, Developer 395g)	× 1	15K	AR-200TD (*1 AR-200TD-J)	1	Life setting by A4 6% document
		Vinyl bag	× 1				
2	Drum cartridge	Drum cartridge	× 1	30K	AR-200DR	1	
		Vinyl bag	× 1		(*1 AR-200DR-J)		
3	Toner kit (Black)	Toner bottle (Toner 610g)	×10	150K	AR-200MT	1	Life setting by A4 6%
		Charging hose	× 1		(*1 AR-200MT-J)		document
		Toner cap	×10				
4	Waste toner box	Waste toner box	×10	*2	AR-200TB	1	
5	Developer kit (Black)	Toner bottle (Developer 395g)	×10	150K	AR-200MD	1	
		Developer cap	×10		(*1 AR-200MD-J)		
		DV blade	×10				
6	Protective cover	MG cover	×10	<b>*</b> 3	AR-200MG	1	
7	Drum kit	Drum	× 1	30K	AR-200MR	1	
		Drum fixing plate			(*1 AR-200MR-J)		
8	Blade kit	Blade	×10	*4	AR-200CB	1	
		Mocket (F/R) Eac	ch × 10				
9	Heat roller	Upper heat roller	× 1	150K	AR-160UH	1	

<sup>\* 1:</sup> For USA government

- ★ 2: Replace every 10 times of developer cartridge recycling (Recommendation)
- ★ 3: Replace every 2 times of developer cartridge recycling (Recommendation)
- \* 4: Replace every 2 times of drum cartridge recycling (Recommendation)

Note: Maintenance parts other than mentioned above must be ordered through the parts department using the proper part number.

#### B. Asia, Southeast Asia

NO	Name	Content		Life	Model name	Package	Remark
1	Developer cartridge (Black)	Toner/developer cartridge (Toner 610g, Developer 395	× 1	15K	AR-200TD	1	Life setting by A4 6% document
		Vinyl bag	× 1				
2	Drum cartridge	Drum cartridge	× 1	30K	AR-200DR	1	
		Vinyl bag	× 1				
3	Toner kit (Black)	Toner bottle (Toner 610g)	×10	150K	AR-200CT	1	Life setting by A4 6%
		Charging hose	× 1				document
		Toner cap	×10				
4	Waste toner box	Waste toner box	×10	*2	AR-200TB	1	
5	Developer kit (Black)	Toner bottle (Developer 395g)	× 10	150K	AR-200CD	1	
		Developer cap	×10				
		DV blade	×10				
6	Protective cover	MG cover	×10	<b>*</b> 3	AR-200MG	1	
7	Drum kit	Drum Drum fixing plate	× 1	30K	AR-200CR	1	
8	Blade kit	Blade	×10	*4	AR-200CB	1	
		Mocket (F/R)	Each × 10				
9	Heat roller	Upper heat roller	×1	150K	AR-160UH	1	

<sup>★ 2:</sup> Replace every 10 times of developer cartridge recycling (Recommendation)

Note: Maintenance parts other than mentioned above must be ordered through the parts department using the proper part number.

<sup>★ 3:</sup> Replace every 2 times of developer cartridge recycling (Recommendation)

<sup>\* 4:</sup> Replace every 2 times of drum cartridge recycling (Recommendation)

## C. Europe / Australia / New Zealand / Middle East / Africa / CIS

NO	Name	Content		Life	Model name	Package	Remark
1	Developer cartridge (Black)	Toner/developer cartridge ×1 (Toner 610g, Developer 395g)		15K	AR-200DC	1	Life setting by A4 6% document
		Vinyl bag	× 1				
2	Drum cartridge	Drum cartridge	× 1	30K	AR-200DM	1	
		Vinyl bag	× 1				
3	Toner kit (Black)	Toner bottle (Toner 610g)	× 10	150K	AR-200LT	1	Life setting by A4 6%
		Charging hose	×1				document
		Toner cap	×10				
4	Waste toner box	Waste toner box	× 10	*2	AR-200TB	1	
5	Developer kit (Black)	Toner bottle (Developer 395g)	× 10	150K	AR-200LD	1	
		Developer cap	× 10				
		DV blade	×10				
6	Protective cover	MG cover	× 10	<b>*</b> 3	AR-200MG	1	
7	Drum kit	Drum	× 1	30K	AR-200LR	1	
		Drum fixing plate					
8	Blade kit	Blade	× 10	*4	AR-200CB	1	
		Mocket (F/R) Ea	ch × 10				
9	Heat roller	Upper heat roller	× 1	150K	AR-160UH	1	

- ★ 2: Replace every 10 times of developer cartridge recycling (Recommendation)
- ★ 3: Replace every 2 times of developer cartridge recycling (Recommendation)
- ★ 4: Replace every 2 times of drum cartridge recycling (Recommendation)

## D. Hong Kong / China

NO	Name	Content		Life	Model name	Package	Remark
1	Developer cartridge (Black)	Toner/developer cartridge (Toner 610g, Developer 395g)	× 1	15K	AR-200TD-C	1	Life setting by A4 6% document
		Vinyl bag	×1				
2	Drum cartridge	Drum cartridge	×1	30K	AR-200DR-C	1	
		Vinyl bag	×1				
3	Toner kit (Black)	Toner bottle (Toner 610g)	× 10	150K	AR-200CT-C	1	Life setting by A4 6%
		Charging hose	×1				document
		Toner cap	×10				
4	Waste toner box	Waste toner box	× 10	*2	AR-200TB-C	1	
5	Developer kit (Black)	Toner bottle (Developer 395g)	× 10	150K	AR-200CD-C	1	
		Developer cap	× 10				
		DV blade	× 10				
6	Protective cover	MG cover	× 10	*3	AR-200MG-C		
7	Drum kit	Drum	×1	30K	AR-200CR-C	1	
		Drum fixing plate					
8	Blade kit	Blade	× 10	*4	AR-200CB-C	1	
		Mocket (F/R)	ach × 10				
9	Heat roller	Upper heat roller	×1	150K	AR-160UH	1	

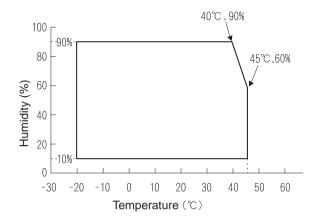
- ★ 2: Replace every 10 times of developer cartridge recycling (Recommendation)
- ★ 3: Replace every 2 times of developer cartridge recycling (Recommendation)
- ★ 4: Replace every 2 times of drum cartridge recycling (Recommendation)

Note: Maintenance parts other than mentioned above must be ordered through the parts department using the proper part number.

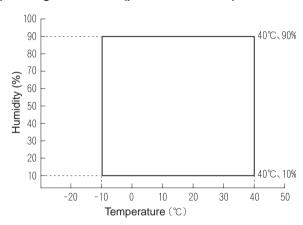
## 2. Environment conditions

## A. Transport condition

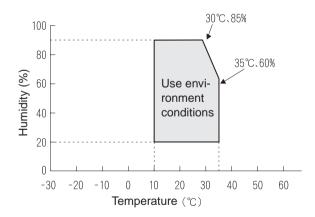
## (1) Transport conditions



## (2) Storage conditions (packed conditions)



## B. Use conditions



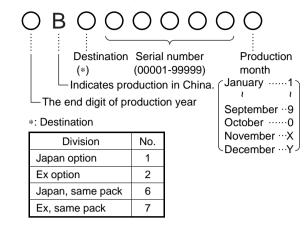
## C. Life (packed conditions)

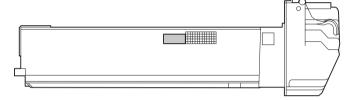
Photoconductor drum (36 months from the production month) Developer, toner (24 months from the production month)

## 3. Production number identification

## <TD cartridge>

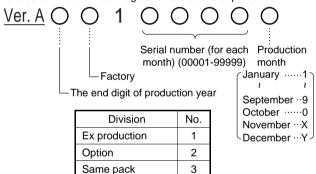
The label on the drum cartridge shows the date of production.

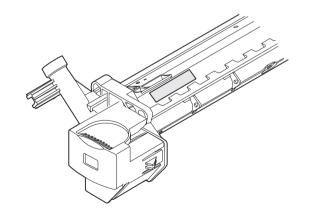




## <Drum cartridge>

The label on the drum cartridge shows the date of production.



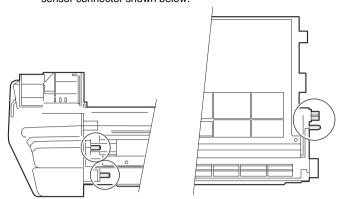


## 4. Consumable parts recycling procedure

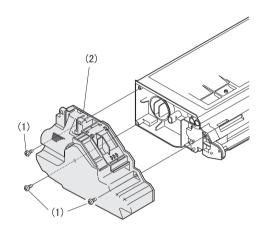
## A. TD cartridge

1) Check the external view.

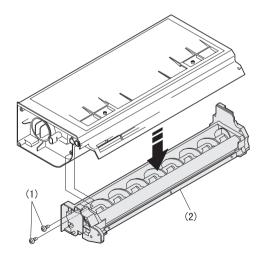
Note: Be careful especially of breakage of the pins and the ATC sensor connector shown below.



2) Remove the waste toner box unit.



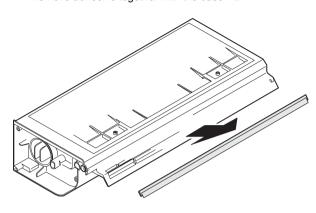
3) Remove the developing unit.



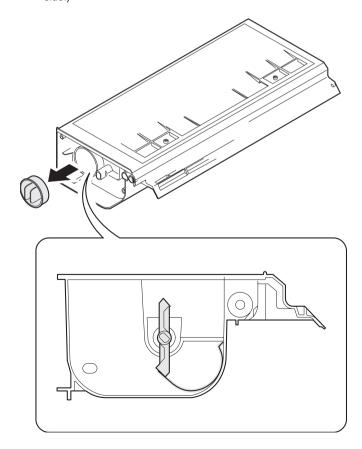
4) Remove the DV blade.

Note: Be sure to remove adhesive completely.

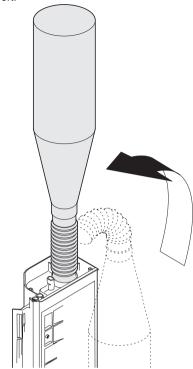
Remove adhesive together with the base PET.



- 5) Tilt the developing unit, rotate the DV gear clockwise, and remove developer.
- Clean and remove developer on the MG roller and toner on the developing doctor completely with a vacuum cleaner or an air blower.
- 7) Shake the developer bottle about 10 times and supply developer to the developing unit.
  - Turn the stirring roller to distribute developer evenly.
- 8) Install the toner box.
- 9) Shake the toner bottle about 20 times and install the toner supply hose to the toner bottle.
- 10) Remove the toner cap. While visually inspecting from the toner supply port, stop the TH shaft at the vertical position. (The TH mylar is on the lower side.) (Turn the gear on the back of the toner box counterclockwise to set the TH mylar on the lower side.)



 Face the toner supply port of the toner box upward with the toner bottle put straight, and insert the supply hose into the toner supply port.



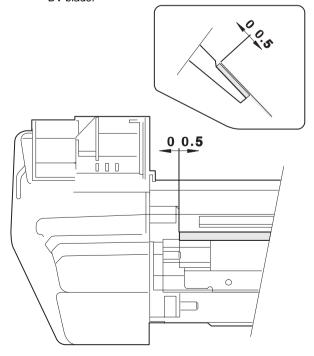
- 12) Lift the toner bottle and supply toner.
- Remove the supply hose from the toner box with care not to spill toner, and attach the toner cap.

Note: If the toner cap is not attached properly, toner splash may

- 14) Install the waste toner box.
- 15) Check the operations of the DV lever and the toner box shutter.
- 16) Wipe and clean the developer unit with alcohol, and attach the DV blade to it.

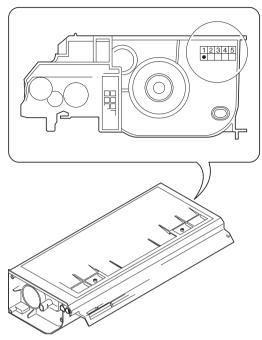
(Note) • Dry alcohol completely before attaching the DV blade,

- When attaching the DV blade, be careful not to scratch it and eliminate slack.
- After attaching, be careful not to scratch and damage the DV blade.



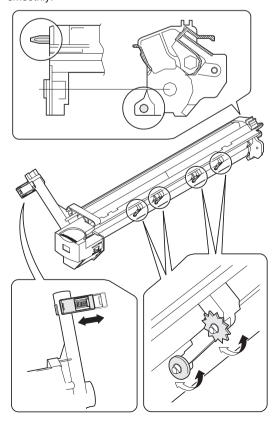
- 17) Shake the developing unit 5 times left and right horizontally.
- 18) Check the distribution state of developer on the MG roller. Rotate the MG roller and visually check for no improper distribution of developer which may be caused by foreign materials.
- 19) Mark the number of times of recycling on the back of the toner box with white paint.

Max. times of recycling: 5 times

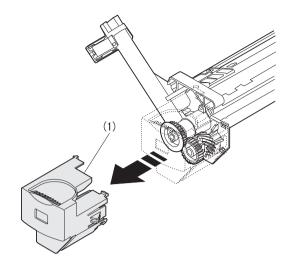


#### B. Drum unit

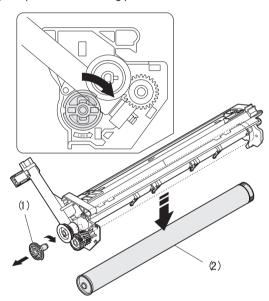
- 1) Check the external view.
  - Check for damage or cracks on the boss and the boss hole.
  - Check to insure that the waste toner pipe shutter slides smoothly.
  - Check to insure that the start ring and the CRU washer rotate smoothly.



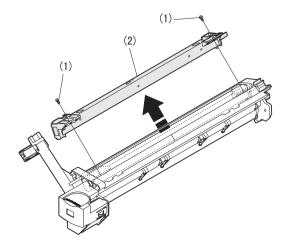
2) Remove the drum cover.



3) Remove the drum fixing plate and the photoconductor drum. (Note) Dispose the drum fixing plate which was removed.

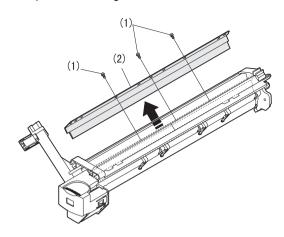


- 4) Check the cleaning blade and the red felt for no damage.
  - If there is any damage, execute all procedures from item 5) and later.
  - If there is no damage, execute the procedure of item 12).
- 5) Remove the main charger. (Cleaning the screen grid and the sawteeth.)



6) Remove the cleaning blade.

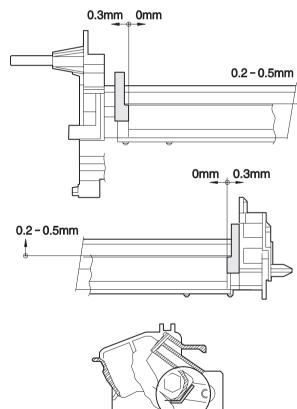
Note: Dispose the cleaning blade which was removed.



- Clean the cleaning section and the waste toner pipe to remove waste toner completely with a vacuum cleaner.
- 8) Remove the felt and duplex tape completely.

Note: Be careful not to scratch or bend the sub blade.

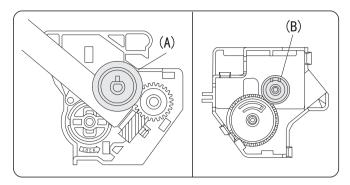
- 9) Attach the cleaning blade.
- 10) Attach the felt.



- 11) Attach the main charger.
- 12) Attach the drum fixing plate and the photoconductor drum.

  Apply grease to the inside of the photoconductor drum. (Dia. 2)
- 13) Attach the detection gear.

Note: • The detection gear is not installed to the drum cartridge packed with the main body. Add a new one.

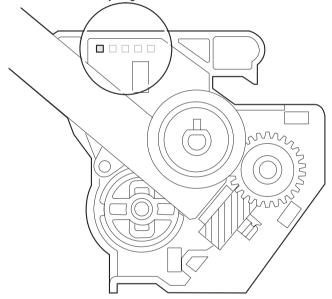


14) Attach the drum cover.

Note: After attaching the drum cover, do not make a copy.

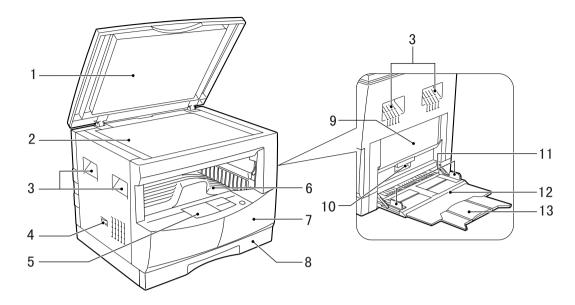
15) Mark the number of times of recycling on the side of the cover with white paint.

Max. times of recycling: 5 times



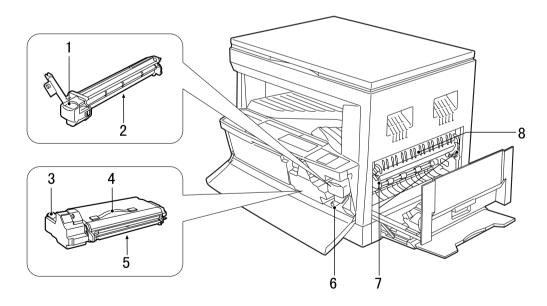
# [4] EXTERNAL VIEWS AND INTERNAL STRUCTURES

## 1. Appearance



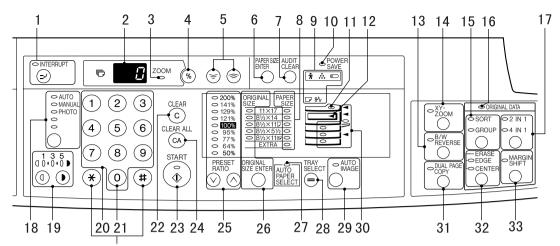
1	Original cover	2	Original table (OC table)	3	Handles
4	Power switch	5	Operation panel	6	Paper output tray
7	Front cover	8	Paper tray	9	Side cover
10	Side cover handle	11	Bypass tray guides	12	Bypass tray
13	Bypass tray extension				

## 2. Internal



1	Drum cartridge handle	2	Drum cartridge	3	TD cartridge handle
4	TD cartridge strap	5	TD cartridge	6	Roller rotating knob
7	Fusing unit release levers	8	Paper guide		

## 3. Operation Section



Not used for the copier features.

4	Intonound have and indicated	_	Camera menantitus diambas	2	700M in diseases
1	Interrupt key and indicator	2	Copy quantity display	3	ZOOM indicator
4	Copy ratio display key	5	Zoom keys	6	PAPER SIZE ENTER key
7	AUDIT CLEAR key	8	PAPER SIZE indicators	9	Alarm indicators
10	POWER SAVE indicator	11	SPF indicator	12	Output tray full indicator
13	B/W REVERSE key and indicator	14	XY-ZOOM key and indicator	15	SORT/GROUP key and indicators
16	ORIGINAL DATA indicator	17	2 IN 1 / 4 IN 1 key and indicators	18	AUTO/MANUAL/PHOTO key and
					indicators
19	Light and dark keys and indicators	20	Numeric keys	21	Zero key
22	CLEAR key	23	START key and indicator	24	CLEAR ALL key
25	PRESET RATIO selector keys and	26	ORIGINAL SIZE ENTER key and	27	AUTO PAPER SELECT indicator
	indicators		indicators		
28	TRAY SELECT key	29	AUTO IMAGE key and indicator	30	Paper feed location/misfeed location
			-		indicators
31	DUAL PAGE COPY key and indicator	32	ERASE key and indicators	33	MARGIN SHIFT key and indicator

**\*** 1

ON: Indicates that the machine is in the energy saving (pre-heat) mode.

Blink: Indicates that the machine is in the process of resetting from the energy saving mode or just after supplying the power. (During warmup)

OFF: Indicates that resetting from the energy saving mode is completed and that the fusing temperature is in ready state.

The combinations of the above display lamps are as follows:  $(\bigcirc = \mathsf{ON}, \bullet = \mathsf{OFF})$ 

Lamp	Immediately after power ON	Ready	Copying
Pre-heat lamp	Blink	•	•
Ready lamp	•	0	•
Other lamps	0	0	0

			,	
Lamp	Energy saving mode (Pre-heating)	Energy saving mode (Auto power shut off)	Resetting from energy saving mode	Copy is started during resetting from energy saving mode
Pre-heat lamp	0	0	Blink	Blink
Ready lamp	0	•	0	•
Other lamps	0	•	0	0

**\*** 2

#### Maintenance lamp

When the set count number (set by the simulation) is reached, the lamp lights up. The machine does not stop.

... TD cartridge replacement required indicator

When toner density is lower than a specified level, the TONER DEVELOPER CARTRIDGE REPLACEMENT indicator lights up to warn the user.

If toner is not added after approximately 10 sheets are copied, the indicator starts blinking and machine starts to supply toner. (Toner Developer cartridge replacement indicator keeps lighting up)

If toner density is not back to specific level after two minutes, the READ indicator goes out and Toner Developer indicator starts blinking, and the copier stops.

Photoconductor cartridge replacement lamp

When the copy count reaches 29,000 after installing a Photoconductor cartridge, the lamp lights up.

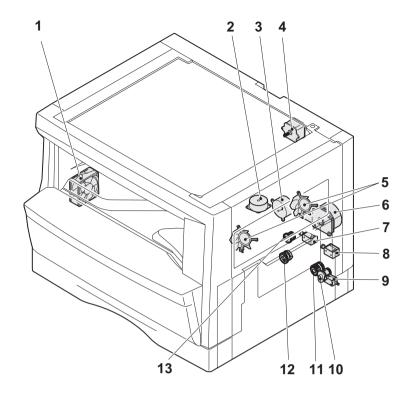
When 1,000 copy is made after that, the lamp blinks instead of lighting. The machine does not stop.

Press and hold the clear key for 5 sec in the user simulation mode to display the remaining life of the photoconductor cartridge in 3 digits x 2 lines on the copy quantity display.

Paper required indicator

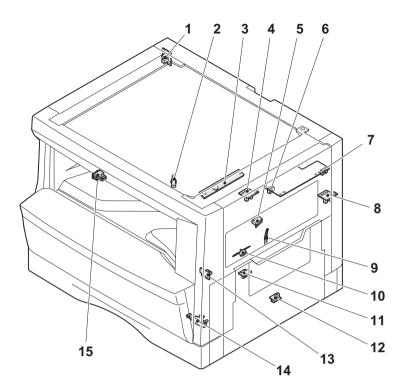
84, Misfeed indicator

## 4. Motor, solenoid, clutch



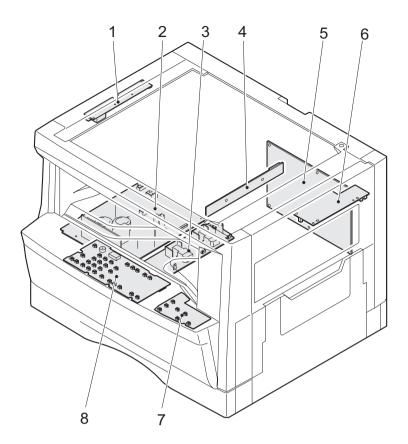
No.	Name	Code	Function, operation
1	Exhaust fan motor	VFM	Cools the inside of the machine.
2	Shifter motor		Shifts the paper exit tray. (AR-161)
3	Toner motor	TM	Toner supply
4	Mirror motor	MRM	Drives the optical mirror base (scanner unit).
5	Cooling fan motor	CFM	Cools the inside of the machine.
6	Main motor	MM	Drives the machine.
7	Paper feed solenoid	CPFS1	Solenoid for paper feed from cassette
8	Resist roller solenoid	RRS	Resist roller rotation control solenoid
9	Manual paper feed solenoid	MPFS	Manual paper feed solenoid
10	Manual paper transport clutch	MPTC	Drives the manual paper transport roller.
11	Manual paper feed clutch	MPFC	Drives the manual paper feed roller.
12	Paper feed clutch	CPFC1	Drives the cassette paper feed roller.
13	PS clutch	RRC	Drives the resist roller

## 5. Sensor, switch



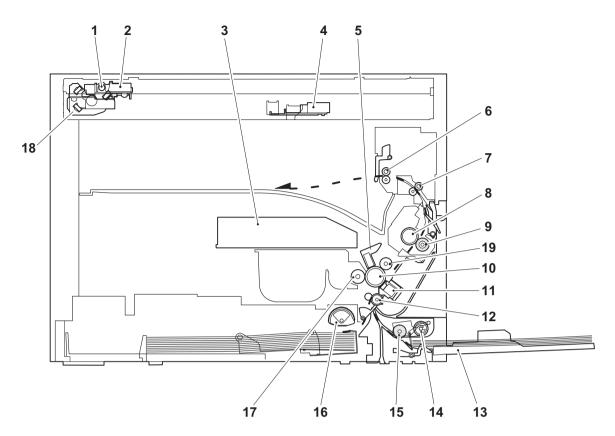
No.	Name	Code	Function, operation
1	Mirror home position sensor	MHPS	Detects the mirror (scanner unit) home position.
2	Cassette detection switch	CSD1	Cassette detection
3	Toner density sensor	TCS	Toner quantity detection
4	Paper exit sensor (paper exit side)	POD1	Detects paper exit.
5	Right door switch	DSWR	Side door open/close detection
6	Paper full sensor		Paper exit tray section full detection <for job="" separator=""></for>
7	Lift sensor		Paper feed tray lift up detection <for job="" separator=""></for>
8	Paper exit sensor (DUP side)	POD2	Paper transport detection
9	Thermistor		Fusing section temperature detection
10	Thermostat		Fusing section abnormally high temperature detection
11	Paper transport sensor	PPD	Paper transport detection
12	Manual sensor	MPED	Manual transport detection
13	Cassette paper sensor	PED1	Cassette paper empty sensor
14	Drum reset switch	DRST	New drum detection switch
15	Power switch	MAIN SW	Turns ON/OFF the main power source.

## 6. PWB unit



No.	Name	Function, operation
1	Copy lamp invertor PWB	Copy lamp control
2	Power PWB	AC power input/DC power control
3	High voltage PWB	High voltage control
4	CCD sensor PWB	Image scanning
5	Main PWB (MCU)	Machine control/Image process
6	Paper exit interface PWB	Paepr exit, finishing control
7	Electronic sort function	Operation panel input/Display
8	Operation main PWB	Operation panel input/Display, operation panel section control

## 7. Cross sectional view



No.	Name	Function/Operation
1	Copy lamp	Image radiation lamp
2	Copy lamp unit	Operates in synchronization with No. 2/3 mirror unit to radiate documents sequentially.
3	LSU unit	Converts image signals into laser beams to write on the drum.
4	Lens unit	Reads images with the lens and the CCD.
5	MC holder unit	Supplies negative charges evenly on the drum.
6	Paper exit roller	Used to discharge paper.
7	Transport roller	Used to transport paper.
8	Upper heat roller	Fuses toner on paper (with the teflon roller).
9	Lower heat roller	Fuses toner on paper (with the silicon rubber roller).
10	Drum unit	Forms images.
11	Transfer charger unit	Transfer images (on the drum) onto paper.
12	Resist roller	Takes synchronization between the paper lead edge and the image lead edge.
13	Manual paper feed tray	Manual paper feed tray
14	Manual paper feed roller	Picks up paper in manual paper feed.
15	Manual transport roller	Transports paper from the manual paper feed port.
16	Paper feed roller (semi-circular roller)	Picks up paper from the cassette.
17	MG roller	Puts toner on the OPC drum.
18	No. 2/3 mirror unit	Reflects the images from the copy lamp unit to the lens unit.
19	Waste toner transport roller	Transports waste toner to the waste toner box.

# [5] UNPACKING AND INSTALLATION

## 1. Installation of machine

### A. Installing conditions

Since the machine performance is largely affected by the installing place conditions, take enough considerations on the following items

#### 1) Environment

- Avoid installation at a place with direct sunlight. If not, the plastic parts may be deformed.
- Avoid installation near a heater, a humidifier, or an air conditioner where humidity and temperature are extremely high or low. If not, paper may be dampened and dew is formed inside the machine, causing paper jam or dirty copies.
- Avoid installation at a dusty place. If dust enters the machine, dirty copy or a trouble may be caused.
- Avoid installation at a place with vibrations. If not, a machine trouble may be caused.
- · Avoid installation at a poorly ventilated place.
- Avoid installation at a place that is filled with ammonium gas. If the copier is installed near a diazo-copier, dirty copies may be resulted.

#### 2) Space around the copier

 Allow a space of more than between the copier rear side and the wall.

#### 3) Power source

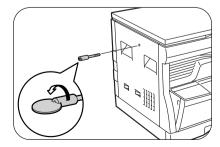
- Use an exclusive-use power outlet of 15A and 100V or more. If the
  power plug of this machine is inserted into a power outlet commonly used with other illumination units, flickers of the lamp may
  be resulted. Use a power outlet which is not used commonly with
  any illumination units.
- Avoid complex wiring.

#### 4) Grounding wire connection.

 To avoid danger, be sure to connect a grounding wire. If no groun ing wire is connected and a leakage occurs, a fire or an electric shock may be resulted.

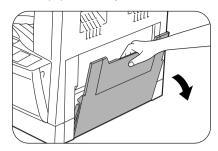
# 2. Removal of protective material and fixing screw

- 1) Remove all tapes and protective material.
  - Remove all tapes, then open the document cover and remove the protective material of sheet shape
- 2) Remove the fixing screw.
  - Use a coin to remove the fixing screw.
  - The fixing screw is required when transporting the machine.
     Keep it in the tray. (Refer to the later description.)

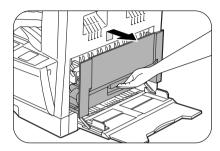


## 3. Installation of developing cartridge

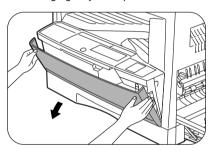
1) Open the manual paper feed tray.



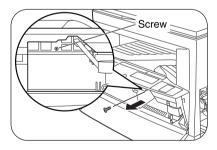
2) Lift the knob and slide the side cover gently.



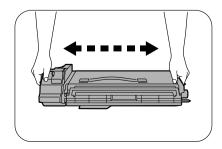
- 3) Open the front cover.
  - Hold the both edge gently and open the front cover.



 Remove the screw from the upper section of the insertion port of the developer cartridge.

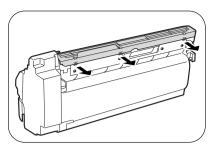


- 5) Shake a new developer cartridge a few times as shown.
  - · Shake it horizontally as shown with the arrow.

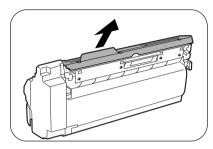


AR-161

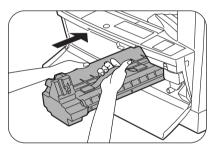
6) Remove the pawls (3 positions) of the protective cover at therear side



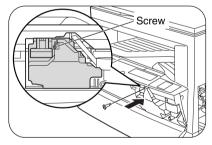
- 7) Remove the protective cover.
  - · Pull the cover in the arrow direction to remove.



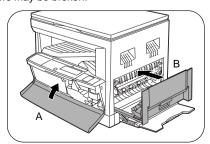
- 8) Insert the developer cartridge.
  - Gently insert the developer cartridge along the guide until it locks.



9) Fix the developer cartridge with the fixing screw which is packed together with the machine.

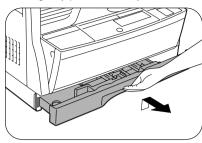


- 10) Close the front cover A, then close the side cover B.
  - When closing the front cover, gently press the both sides.
  - When closing the side cover, hold the knob.
  - When closing the covers, be sure to close the front cover first, then close the side cover. If closed in a wrong sequence, the covers may be broken.

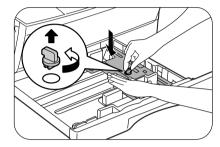


## 4. Removal and storage of fixing screw

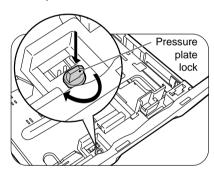
1) Lift the knob and gently pull out the tray.

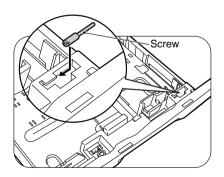


2) Hold the paper pressure plate and turn the fixing screw in the arrow direction.



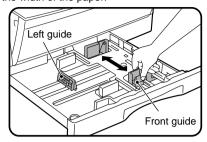
- 3) Store the fixing pin and the fixing screw in the tray.
  - Store the fixing screw which was removed in the above procedure 2 and the fixing screw which was removed in procedure 2 of 2.
  - Removal of protective material and fixing screw in the storage place in the tray.



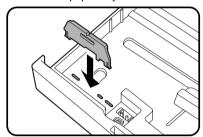


## 5. Changing the copy paper size in the tray

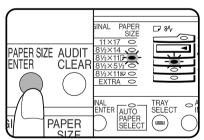
- 1) Gently lift and pull out the paper tray until it stops.
- 2) Push the pressure plate down until it locks in place.
- Squeeze the lock lever of the front guide and slide the front guide to match the width of the paper.



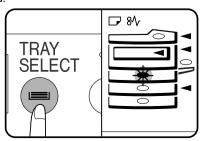
- 4) Move the left guide to the appropriate slot as marked on the tray.
  - When using 11" x17" copy paper, store the left guide in the slot at the left front of the paper tray.



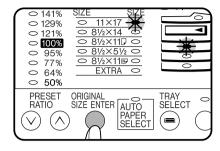
- 5) Load copy paper into the tray.
- 6) Place the paper size plate in the front of the paper tray.
  - The paper size indication which shows through the slot on the front of the copier should match the selected paper size.
- 7) Push the paper tray firmly back into the copier.
- 8) To set the selected paper size, press and hold down the PAPER SIZE ENTER key. The selected paper feed location indicator and the corresponding paper size (which has been set) indicator will blink. All other indicators will go out.
  - For paper size setting, ensure that the COPY mode has been selected. However, if printer or facsimile output is being performed, paper size setting cannot be made even in the COPY mode.



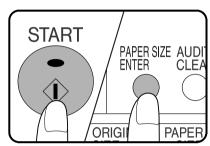
- Use the TRAY SELECT key to select the paper tray of which the paper size has been changed.
  - Each time the TRAY SELECT key is pressed, a paper tray is indicated with a blinking paper feed location indicator. If an optional paper feed unit is not installed, this operation is not needed.



- Use the ORIGINAL SIZE ENTER key to select the paper size which is set.
  - Each time the ORIGINAL SIZE ENTER key is pressed, a paper size will be indicated with a blinking paper size indicator.



- 11) Press the START key and then the PAPER SIZE ENTER key.
  - To change the paper size setting of another tray, repeat steps 9 to 10 after pressing the START key.

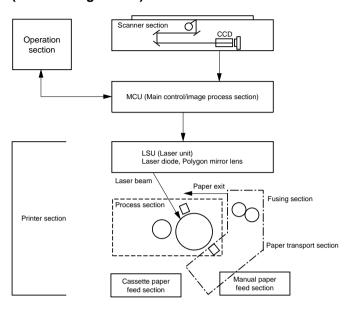


## [6] OPERATIONAL DESCRIPTIONS

## 1. Outline of operation

The outline of operation is described referring to the basic configuration.

#### (Basic configuration)



## **Outline of copy operation**

#### A. Setting conditions: Operation panel

Set copy conditions such as the copy quantity and the copy density with the operation section, and press the START key. The information on copy conditions is sent to the MCU.

#### B. Image scanning: Scanner section

When the START key is pressed, the scanner section starts scanning of images. The light from the copy lamp is reflected by the document and passed through the lens to the CCD.

# C. Photo signal/Electric signal conversion: Scanner section

 The image is converted into electrical signals by the CCD circuit and passed to the MCU.

#### D. Image process: MCU

 The document image signal sent from the CCD circuit is processed under the revised conditions and sent to the LSU (laser unit) as print data.

# E. Electric signal/Photo signal (laser beam) conversion: LSU

- The LSU emits laser beams according to the print data. (Electrical signals are converted into photo signals.)
- The laser beams are radiated through the polygon mirror and various lenses to the OPC drum.

#### F. Printing: Process section

- Electrostatic latent images are formed on the OPC drum according to the laser beams, and the latent images are developed to be visible images (toner images).
- Meanwhile the paper is fed to the image transfer section in synchronization with the image lead edge.
- The toner image is transferred on the paper.

#### G. Fusing: Fusing section

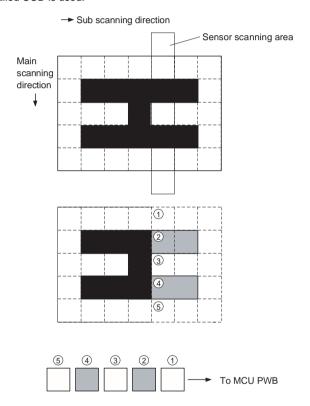
 Heat and a pressure are applied to the toner image on the copy paper to fuse the image on the paper.

#### 2. Scanner section

#### A. Scan process

The scanner has sensors that are arranged in a line. These sensors scan a certain area of a document at a time and deliver outputs sequentially. When the line is finished, the next line is scanned, and this procedure is repeated. The figure below shows the case where an image which is scanned is shown with solid lines.

The direction of this line is called main scanning direction, and the scanning direction sub scanning direction. In the figure above, one line is divided into 5 sections. Actually, however, one line is divided into thousands of sections. For scanning, the light receiving element called CCD is used.

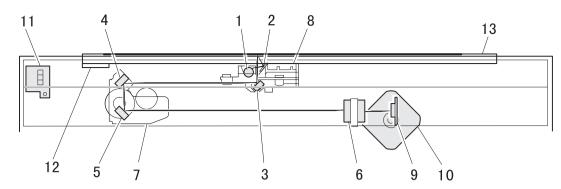


The basic resolution indicates the scanner capacity. The basic resolution is expressed in dpi (dot/inch) which shows the number of light emitting elements per inch on the document.

The basic resolution of this machine is 400dpi.

In the sub scanning direction, at the same time, the motor that drives the optical system is controlled to scan the image at the basic resolution.

## B. Basic structure of scanner section

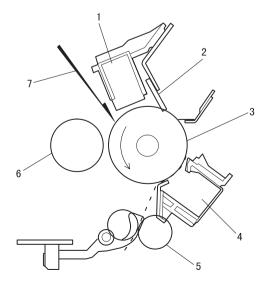


1	Copy lamp (Xenon lamp)	Generate photo energy to scan documents.
2	Reflector (Converging plate)	Collects light emitted from the copy lamp and radiate the document.
3	No. 1 mirror	Refracts the reflection light from the document to No. 2 mirror.
4	No. 2 mirror	Refracts the reflection light from No. 1 mirror.
5	No. 3 mirror	Refracts the reflection light from No. 2 mirror.
6	Lens	Converges reflected light from the document to form images on the CCD element.
7	No. 2/3 mirror unit	Includes No. 2/3 mirror. Driven in synchronization with the copy lamp unit.
8	Copy lamp unit	Includes the copy lamp, the reflector, and No. 1 mirror. Driven in synchronization with No. 2/3 mirror unit by the mirror motor.
9	CCD PWB	Reflected light (image) formed on the CCD is converted into electrical signals (analog signals) then into digital signals and sent to the MCU.
10	Mirror motor	Drives the copy lamp unit and No. 2/3 mirror unit according to the scanning speed.
11	MHPS (Mirror home position sensor)	Detects the home position of No. 2/3 mirror unit.
12	Reference white plate	Reference white sheet for scanning documents. The reference line of magnification ratio adjustment during SIM is also drawn.
13	OC glass	Glass table to put a document on it.

The light from the light source (Xenon lamp) is reflected by a document and passed through three mirrors and reduction lenses to the CCD element (image sensor) where images are formed. This system is known as the reduction image sensor system. Photo energy on the CCD element is converted into electrical signals (analog signals). (Photo-electric conversion). The output signals (analog signals) are converted into digital signals (A/D conversion) and passed to the MCU (main control/image process section). The resolution at that time is 400dpi. The mirror unit in the scanner section is driven by the mirror motor. The MHPS is provided to detect the home position of the copy lamp unit.

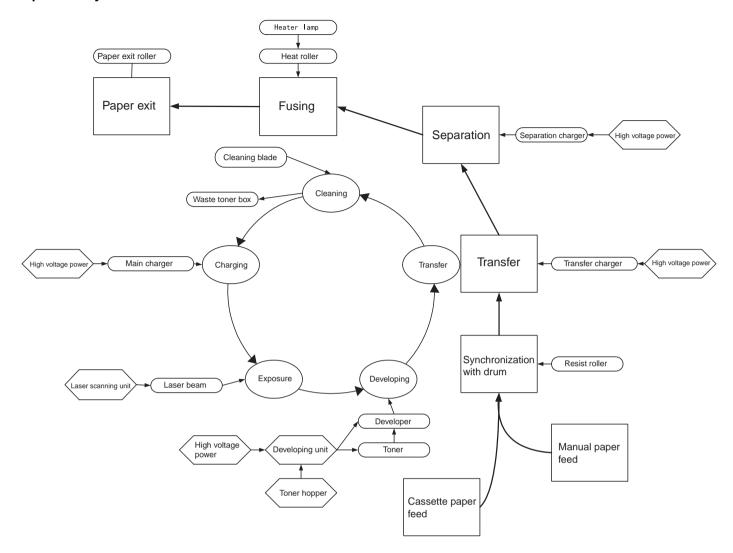
## 3. Process section

## A. Basic structure



1	Main charger unit	Charges the OPC drum.
2	Cleaning blade	Collects waste toner on the OPC drum.
3	OPC drum	Images are formed by laser beams electrically, and toner is attached to the image.
4	Transfer unit	Toner on the OPC drum is transferred to the print paper by the potential difference.
5	Resist roller	Makes synchronization between the paper and the print image.
6	MG roller	Magnetic brush is formed by developer to put toner on the OPC drum.
7	(Laser beam)	Forms images on the OPC drum.

#### **Operation cycle**



## B. Outline of print process

The printer section of this machine employs the laser print system where print images are formed by the laser beams on the OPC drum.

A high voltage (corona) is applied from the main charger to the OPC drum to charge the OPC drum.

Laser beams are radiated to the charged OPC drum to form electrical images on the OPC drum. (Exposure)

(At that time, the print image on the OPC drum cannot be seen: latent electrostatic image)

By the potential difference between the unexposed area and the latent electrostatic images, toner ia attracted only to the images.(Developing)

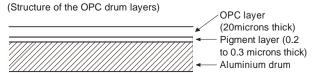
(At that time, the print image formed by toner on the OPC drum can be seen. Visible images)

The toner image on the OPC drum is transferred on the print paper by the transfer corona (voltage).

After that, the print paper with the toner image on it is subject to heat and pressure in the fusing section to fuse the image on the paper.

This machine employs the following organic photoconductor (OPC) drum.

An OPC drum is used for the photoconductor.

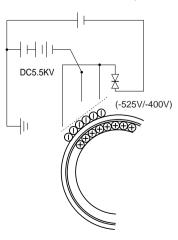


## C. Actual print process

## (1) Charging

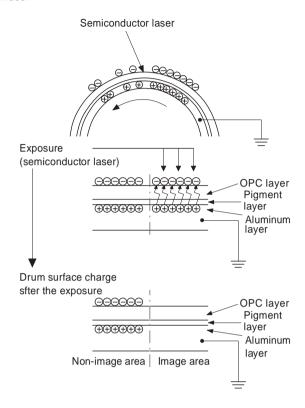
A high voltage is applied to the main charger, and negative charges are discharged to the OPC drum. A screen grid is provided between the main charger and the OPC drum, and negative charges are uniformly charged on the OPC drum surface.

Positive charges are attracted by the negative electrode on the OPC drum surface and excited in the aluminum layer in the OPC drum.



#### (2) Exposure

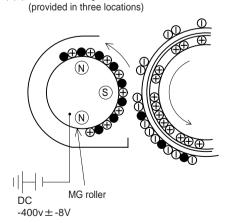
A Laser beam is generated from the semiconductor laser and controlled by the print pattern signal. The laser writes onto the OPC drum surface through the polygon mirrors and lens. The resistance of the OPC layer decreases for an area exposed by the laser beam (corresponding to the print pattern signal). The beam neutralizes the negative charge. An electrostatic latent image is formed on the drum surface.

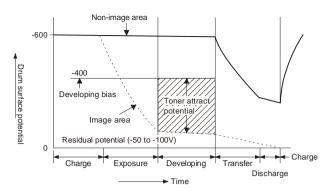


#### (3) Developing (DC bias)

A bias potential is applied to the MG roller in the two component magnetic brush developing method, and the toner is charged negative through friction with the carrier. Non-image area of the drum surface charged with negative potential repel the toner, whereas the laser exposed portions where no negative charges exist, attract the toner. As a result, a visible image appears on the drum surface.

: Carrier (Magnetized particle)
: Toner (Charge negative by friction)
(N) (S) : Permanent magnet

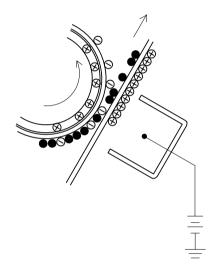




Toner is attracted over the shadowed area because of the developing bias.

#### (4) Transfer

The visible image on the drum surface is transferred onto the print paper by applying a positive charge from the transfer corona to the backside of the print paper.

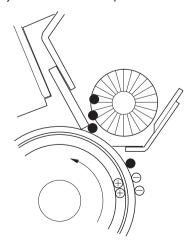


## (5) Separation

Since the print paper is charged positively by the transfer corona, it is discharged by the separation corona. The separation corona is connected to ground.

#### (6) Cleaning

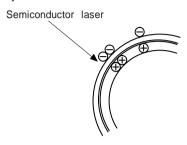
Toner remaining on the drum is removed and collected by the cleaning blade. It is transported to the waste toner collecting section in the cleaning unit by the waste toner transport roller.



#### (7) Optical discharge (Semiconductor laser)

Before the drum rotation is stopped, the semiconductor laser is radiated onto the drum to reduce the electrical resistance in the OPC layer and eliminate residual charge, providing a uniform state to the drum surface for the next page to be printed.

When the electrical resistance is reduced, positive charges on the aluminum layer are moved and neutralized with negative charges on the OPC layer.



#### a. Charge by the Scorotron charger

#### <1> Function

The Scorotron charger functions to maintain the surface potential of the drum even at all times which. It is used to control the surface potential regardless of the charge characteristics of the photoconductor.

#### <2> Basic function

A screen grid is placed between the saw tooth and the photoconductor. A stable voltage is added to the screen grid to maintain the corona current on the photoconductor. As the photoconductor is charged by the saw tooth from the main corona unit, the surface potential increases. This increases the current flowing through the screen grid. When the photoconductor potential nears the grid potential, the current turns to flow to the grid so that the photoconductor potential can be maintained at a stable level.

#### b. Process controlling

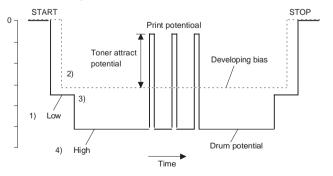
#### <1> Function

The print pattern signal is converted into an invisible image by the semiconductor laser using negative to positive (reversible) developing method. Therefore, if the developing bias is added before the drum is charged, toner is attracted onto the drum. If the developing bias is not added when the drum is charged, the carrier is attracted to the drum because of the strong electrostatic force of the drum.

To avoid this, the process is controlled by adjusting the drum potential and the grid potential of the Scorotron charger.

### <2> Basic function

Voltage added to the screen grid can be selected, high and low. To make it easily understood, the figure below shows voltage transition at the developer unit.



#### <3> Start

- 1) Because the grid potential is at a low level, the drum potential is at about -400V. (Carrier may not be attracted though the carrier is pulled towards the drum by the electrostatic force of -400V.)
- Developing bias (-400V) is applied when the photoconductor potential is switched from LOW to HIGH.
- Once developing bias (-400V) is applied and the photo conductor potential rises to HIGH, toner will not be attracted to the drum.

#### <4> Stop

The reverse sequence takes place.

#### c. Retaining developing bias at an abnormal occurrence

#### <1> Function

The developing bias will be lost if the power supply was removed during print process. In this event, the drum potential slightly abates and the carrier makes deposits on the drum because of strong static power. To prevent this, the machine incorporates a function to retain the developing bias for a certain period and decrease the voltage gradually against possible power loss.

#### <2> Basic function

Normally, the developing bias voltage is retained for a certain time before the drum comes to a complete stop if the machine should stop before completing the normal print cycle. The developing bias can be added before resuming the operation after an abnormal interruption. Therefore, carrier will not make a deposit on the drum surface.

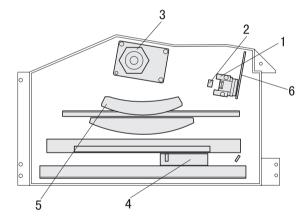
## 4. Laser unit

The image data sent from the MCU (image process circuit) is sent to the LSU (laser unit), where it is converted into laser beams.

#### A. Basic structure

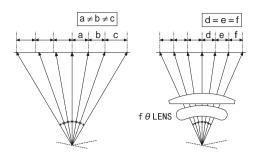
The LSU unit is the writing section of the digital optical system. The semiconductor laser is used as the light source, and images are formed on the OPC drum by the polygon mirror and  $\theta$  lens, etc.

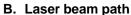
The laser beams are passed through the collimator lens, the cylindrical lens, the polygon mirror, the  $f\theta$  lens, and the mirror to form images on the OPC drum in the main scanning direction. The laser emitting PWB is provided with the APC (auto power control) in order to eliminate fluctuations in the laser power. The BD PWB works for measurement of the laser writing start point.

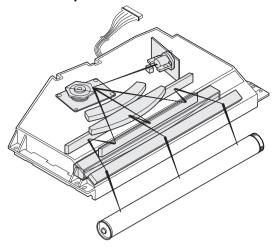


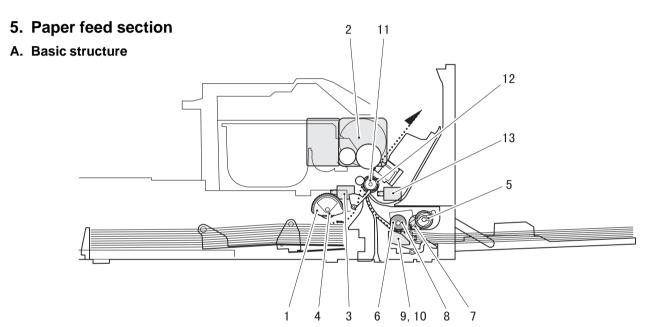
1	Semiconductor laser	Generates laser beams
2	Collimator lens	Converges laser beams in parallel
3	Polygon mirror,polygon motor	Reflects laser beams at a constant rpm
4	BD (Mirror, lens, PWB)	Detects start timing of laser scanning
5	fθ lens	Converges laser beams at a spot on the drum.  Makes the laser scanning speeds at both ends of the drum same as each other. (Refer to the figure below.)
6	Laser emitting PWB	Emits laser beams according to the image data.

Makes the laser scanning speeds at both ends of the drum same as each other.









1	No. 1 cassette paper feed roller (Semi-circular roller)	Picks up paper from No. 1 cassette.
2	Main motor	Drives the process section and the paper transport section.
3	No. 1 cassette paper feed solenoid	Rotates and controls No. 1 cassette paper feed roller.
4	No. 1 cassette paper feed roller clutch	Drives No. 1 cassette paper feed roller.
5	Manual paper feed roller	Picks up paper from the manual paper feed tray.
6	Manual paper transport roller	Transport paper which was picked up from the manual paper feed tray.
7	Manual paper feed roller clutch	Drives the manual paper feed roller.
8	Manual paper transport roller clutch	Drives the manual paper transport roller.
9	Manual paper feed roller solenoid	Rotates and controls the manual paper feed roller.
10	Manual paper transport roller solenoid	Rotates and controls the manual paper transport roller.
11	Resist roller	Takes synchronization between the paper lead edge and the image lead edge.
12	Resist roller clutch	Drives the resist roller.
13	Resist roller solenoid	Rotates and controls the resist roller.

## B. Brief descriptions of operations

This machine allows two ways of paper feed system: cassette paper feed and manual paper feed.

The cassette of universal type is employed to hold 250 sheets. The front loading system allows to attach or detach the cassette from the front of the machine.

Paper size can be selected by the user.

Paper size detection is set by the software. (User setting is allowed.) By installing the optional 1-step paper feed unit or the multi-step paper feed unit, the capacity of paper can be increased.

#### (1) Cassette paper feed operation

Select the cassette and press the START button, and the paper feed roller solenoid will be turned on and the paper feed clutch will be released.

The drive power of the main motor is transmitted through the paper feed roller clutch to the paper feed roller, rotating the paper feed roller and feeding paper.

#### (2) Manual paper feed tray operation

Select the manual paper feed tray and press the START button, and the manual paper feed roller will be turned on to bring the paper feed roller in contact with paper and lift the shutter simultaneously.

The drive power of the main motor is transmitted through the manual paper feed roller clutch to the manual paper feed roller, rotating the manual paper feed roller and feeding paper.

#### (3) Resist roller

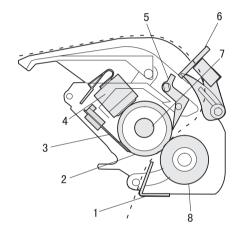
In order to make synchronization between the paper lead edge fed from the paper feed port and the image lead edge, the roller is kept stationary for a certain time after the paper reaches at the roller to warp the paper a little.

When the paper is warped to a certain level, the resist roller solenoid is turned on to release the resist roller clutch.

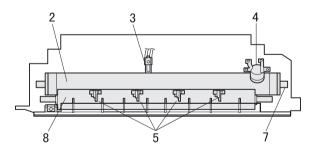
The drive power of the main motor is transmitted through the resist roller clutch to the resist roller, rotating the resist roller and feeding paper.

## 6. Fusing section

#### A. Basic composition



## (Top view)



1	Before-fusing paper guide	Guides the paper transported from the process section to the fusing unit.
2	Upper heat roller	Applies heat and pressure to the paper to fuse.
3	Thermistor	Detects the surface temperature of the upper heat roller.
4	Thermostat	Stops power supply to the heat roller in case of an abnormally high temperature of the heat roller.
5	Separation pawl	Separates the print paper from the upper heat roller.
6	POD1	Detects that the paper has been transported from the fusing section.
7	Heater lamp	Heats the heat roller.
8	Lower heat roller	Applies a pressure to the paper together with the upper heat roller.

#### B. Heat roller

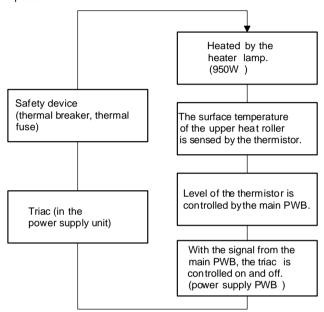
A pressure roller is used for the heat roller and a silicone rubber roller is used for the lower heat roller for better toner fusing performance and paper separation.

#### C. Separator pawl

Four separator pawls are used on the upper heat roller. The separator pawls are teflon coated to reduce friction with the roller and prevent a smear on the paper caused by the separator pawl.

#### D. Thermal control

 The heater lamp, thermistor, main PWB, DC power supply PWB, and triac within the power supply unit are used to control the temperature in the fuser unit. To prevent against abnormally high temperature in the fuser unit, a thermostat is used for safety purposes.



- The surface temperature of the upper heat roller is set to 180°C ~ 195°C. The surface temperature during the power save mode is set to 100°C.
- The self-check function comes active when one of the following malfunctions occurs, and an "H" is displayed on the copy quantity display.

Fusing temperature error value

H4 (Low temperature error)

During machine operation

The case where the fusing temperature (thermistor output value) does not reach 155°C within 55 sec from lighting of the heater lamp. (If the toner motor rotates for 10 sec or more continuously when starting the machine, the case where the fusing temperature does not reach 155°C within 60 sec.)

• During printing

When the fusing temperature (thermistor output value) falls below 145°C.

H3 (High temperature error)

Fusing temperature (thermistor output value) of about 220 to 240°C (varies depending on the resistance.)

## E. Fusing resistor

## (1) Fusing resistor

Since the upper heat roller is conductive when copy paper is highly moistured and the distance between the transfer unit and the fusing unit is short, the transfer current leaks through the copy paper, the upper heat roller and the discharging brush.

To prevent against this, a resistor of 150MOhm is provided between the frame and the discharge brush to minimize leak current and improve transfer efficiency.

## [7] ADJUSTMENTS

## 1. Adjustment item list

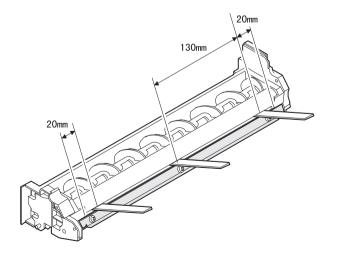
	Section		Adjustment item		Adjustment procedure/SIM No.		
Α	Process section	(1)	Developing doctor gap adjustment		Developing doctor gap adjustment		
			MG roller main pole position adjustment		MG roller main pole position adjustment		
		(3)	Developing bias voltage output adjustment		SIM 8-1		
		(4)	Main charger voltage output adjustment		SIM 8-2/SIM 8-3		
		(5)	Transfer charger current adjustment		SIM 8-6		
В	Mechanism section	(1)	Image position adjustment		SIM 50-1/SIM 50-10		
		(2)	Main scanning direction (FR direction) distortion balance adjustment		No. 2/3 mirror base unit installing position adjustment		
					Copy lamp unit installing position adjustment		
			Main scanning direction (FR direction) distortion adjustment		F rail height adjustment		
		(4)	Sub scanning direction (scanning direction) distortion adjustment		Winding pulley position adjustment		
		(5)	Main scanning direction (FR direction) magnification ratio adjustment		SIM 48-1		
		(6)	Sub scanning direction (scanning direction)	а	OC mode in copying (SIM 48-2)		
			magnification ratio adjustment	b	SPF mode in copying (SIM 48-5)		
				С	OC mode in FAX (SIM 48-6)		
				d	SPF mode in FAX (SIM 48-7)		
		(7)	Off center adjustment	а	OC mode (SIM 50-13)		
				b	SPF mode (SIM 50-16)		
		(8)	Document size detection sensor		SIM 41-2		
С	Image density adjustment	(1)	Copy mode		SIM 46-1		

## 2. Copier adjustment

#### A. Process section

## (1) Developing doctor gap adjustment

- 1) Loosen the developing doctor fixing screw A.
- Insert a thickness gauge of 1.5mm to the three positions at 20mm and 130mm from the both ends of the developing doctor as shown.



- Push the developing doctor in the arrow direction, and tighten the developing doctor fixing screw. (Perform the same procedure for the front and the rear frames.)
- 4) Check the clearance of the developing doctor. If it is within the specified range, then fix the doctor fixing screw with screw lock.
- \* When inserting a thickness gauge, be careful not to scratch the developing doctor and the MG roller.

#### <Adjustment specification>

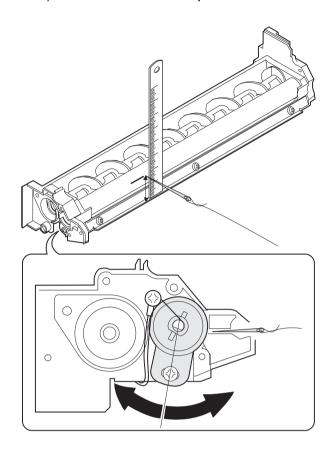
Developing doctor gap

Both ends (20mm from the both ends):  $1.5\pm0.1$ mm C (Center)(150mm from the both ends):  $1.5\pm0.1$ mm

#### (2) MG roller main pole position adjustment

- 1) Remove and separate the waste toner box and put the developing unit on a flat surface.
- 2) Tie a string to a needle or a pin.
- Hold the string and bring the needle close to the MG roller horizontally. (Do not use paper clip, which is too heavy to make a correct adjustment.) (Put the developing unit horizontally for this adjustment.)
- 4) Do not bring the needle into contact with the MG roller, but bring it to a position 2 or 3mm apart from the MG roller. Mark the point on the MG roller which is on the extension line from the needle tip.

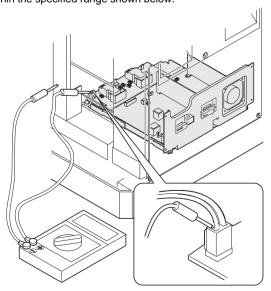
5) Measure the distance from the marking position to the top of the doctor plate of the developing unit to insure that it is 18mm. If the distance is not within the specified range, loosen the fixing screw A of the main pole adjustment plate, and move the adjustment plate in the arrow direction to adjust.



## (3) Developing bias voltage adjustment (SIM 8-1)

Note: • Use a digital multi-meter with an internal resistance of  $10 M\Omega$  or more.

- 1) Set the digital multi-meter range to DC700V.
- Put the test rod of the digital multi-meter on the developing bias voltage output check pin.
- Execute SIM 8-1. (The developing bias voltage is outputted for 30 sec.)
- 4) Adjust the adjustment volume VR31 so that the output voltage is within the specified range shown below.



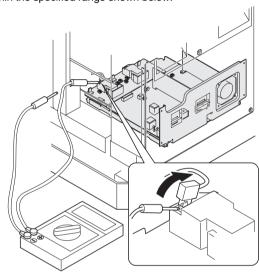
#### <Adjustment specification>

Mode	Specification	SIM	
Developing bias voltage	DC-400±8V	SIM 8-1	VR31

#### (4) Grid bias voltage adjustment (SIM 8-2, SIM 8-3)

Note: • Use a digital multi-meter with an internal resistance of  $10 M\Omega$  or more.

- First adjust the grid LOW output, then adjust the grid HIGH voltage.
- 1) Set the digital multi-meter range to DC700V.
- Put the test rod of the digital multi-meter on the grid bias voltage output check pin.
- 3) Execute SIM 8-3. (The grid bias voltage is outputted in the grid bias LOW output mode for 30 sec.)
- 4) Adjust the adjustment volume VR52 so that the output voltage is within the specified range shown below.
- 5) Execute SIM 8-2. (The grid bias voltage is outputted in the grid bias HIGH output mode for 30 sec.)
- 6) Adjust the adjustment volume VR51 so that the output voltage is within the specified range shown below.



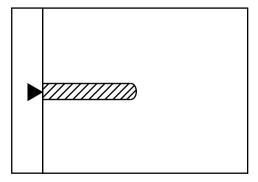
#### <Adjustment specification>

Mode	Specification	SIM	
Grid bias LOW	DC-400±20V	SIM 8-3	VR52
Grid bias HIGH	DC-525±10V	SIM 8-2	VR51

#### **B.** Mechanism section

## (1) Image position adjustment (SIM 50-1/SIM 50-10)

- a. Image lead edge position adjustment
- 1) Set a scale on the document table as shown below.



- 2) Make a copy.
- Check the copy. If, necessary, perform the following adjustment procedure.
- 4) Execute SIM 50-1. Set AE (Laser radiation timing)/Lead edge void

value to 0. Make a copy (100%) again.

5) Set the laser radiation timing (image loss amount). Measure R in the figure below.

Laser radiation timing =  $R (mm) \times 10$ 

6) Set the lead edge void.

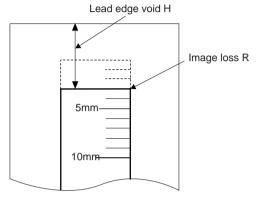
Measure H in the figure below.

Lead edge void =  $H(mm) \times 10$ 

7) Enter the set value and press the start key.

The correction value is stored and a copy is made.

(Example)

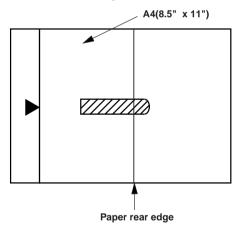


#### <Adjustment specification>

Mode	Specification	SIM	Set value	Set range
Laser radiation	1 ~ 4mm	SIM	1 step:	1 ~ 99
timing		45-1	0.1mm shift	
Lead edge void				
adjustment				

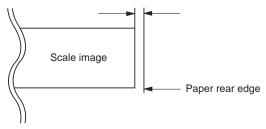
#### b. Rear edge void adjustment

1) Set a scale as shown in the figure below.



- 2) Set the document size to A4, and make two copies at 100%.
- Check the second copy. If necessary, perform the following adjustment procedure.
  - \* The first copy does not show the void. Be sure to check the second copy.

Void amount (Standard value: 0  $\,^\sim$  4mm)



4) Execute SIM 50-1 and set the density mode to AE + TEXT + PHOTO (Rear edge void).

The currently set adjustment value is displayed.

5) Enter the set value and press the start key.

The correction value is stored and a copy is made.

#### <Adjustment specification>

Mode	Specification	SIM	Set value	Set range
Rear edge void	4mm or less	SIM	1 step:	1-99
		50-1	0.1mm shift	

#### c. Paper off center adjustment

- Execute SIM 50-1 and set the density mode of Manual (TEXT) (Left edge void) to 0.
- 2) Set a test chart (UKOG-0089SCZZ) on the document table.
- 3) Select a paper feed port and make a copy.

Compare the copy and the test chart. If necessary, perform the following adjustment procedure.

4) Execute SIM 50-10.

After completion of warmup, shading is performed and the currently set off center adjustment value of each paper feed port is displayed.

5) Enter the set value and press the start key.

The correction value is stored and a copy is made.

#### <Adjustment specification>

Mode	Specification	SIM	Set value	Set range
Paper off center	Single: Center ±2.0mm	SIM 50-10	Add 1: 0.1mm shift to R side.	1 ~ 99
	Duplex: Center ±2.5mm		Reduce 1: 0.1mm shift to L side.	

#### d. Left edge void area adjustment

Note: Before performing this adjustment, be sure to check that the paepr off center adjustment (SIM 50-10) is completed.

- 1) Set a test chart (UKOG-0089SCZZ) on the document table.
- 2) Select a paper feed port and make two copies.

Compare the second copy and the test chart. If necessary, perform the following adjustment procedure.

- \* The first copy does not show the void. Be sure to check the second copy.
- Execute SIM 50-1 and set the density mode to Manual (TEXT) (Left edge void).

The currently set adjustment value is displayed.

(When the off center adjustment previously described is performed, "0" is displayed.)

4) Enter the set value and press the start key.

The correction value is stored and a copy is made.

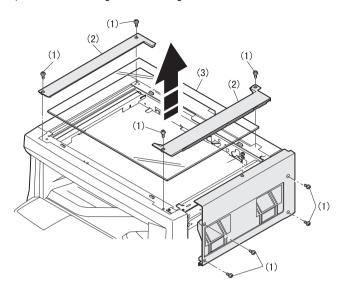
## <Adjustment specification>

Mode	Specification	SIM	Set value	Set range
Left edge void	1 ~ 4mm	_	1 step:	1 ~ 99
		50-1	0.1mm shift	

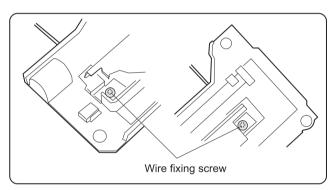
\* When the left edge void is set with the paper off center adjusted, the both edge void is automatically adjusted.

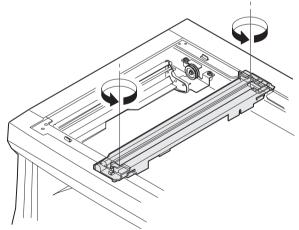
# (2) Main scanning direction (FR directional distortion balance adjustment)

1) Remove the OC glass and the right cabinet.



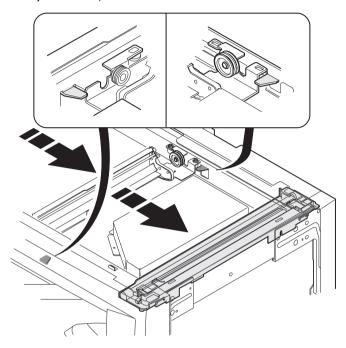
2) Loosen the copy lamp unit wire fixing screw.



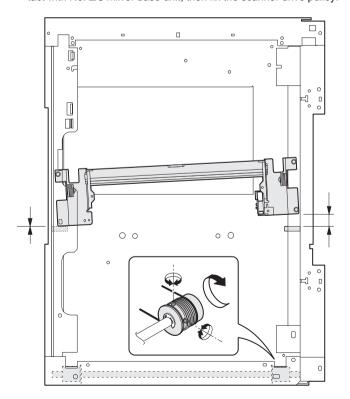


3) Manually turn the mirror base drive pulley and bring No. 2/3 mirror base unit into contact with the positioning plate.

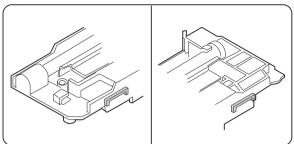
At that time, if the front frame side and the rear frame side of No. 2/3 mirror base unit are brought into contact with the positioning plate at the same time, the mirror base unit parallelism is proper. If one of them is in contact with the positioning plate, perform the adjustment of 4).

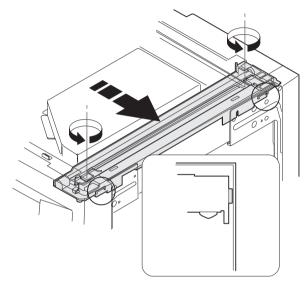


- 4) Loosen the set screw of the scanner drive pulley which is not in contact with No. 2/3 mirror base unit positioning plate.
- 5) Without moving the scanner drive pulley shaft, manually turn the scanner drive pulley until the positioning plate is brought into contact with No. 2/3 mirror base unit, then fix the scanner drive pulley.



6) Put No. 2/3 mirror base unit on the positioning plate again, push the projections on the front frame side and the rear frame side of the copy lamp unit to the corner frame, and tighten the wire fixing screw.

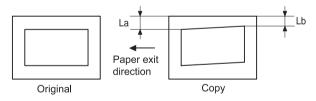




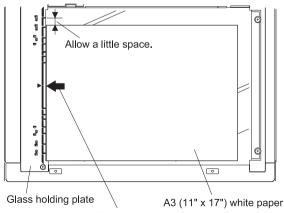
# (3) Main scanning direction (FR direction) distortion adjustment

This adjustment must be performed in the following cases:

- · When the mirror base drive wire is replaced.
- When the lamp unit, or No. 2/3 mirror holder is replaced.
- When a copy as shown is made.

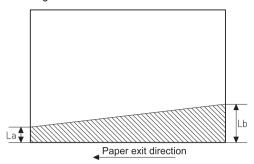


1) Set A3 (11" x 17") white paper on the original table as shown below.



Fit the paper edge and the glass holding plate edge.

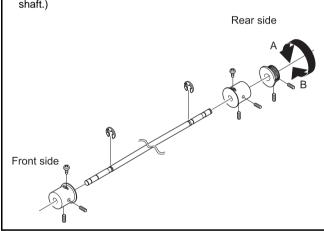
- 2) Open the original cover and make a normal (100%) copy.
- Measure the width of the black background at the lead edge and at the rear edge.



La: Lead edge black background width Lb: Rear edge black background width

If the width (La) of the black background at the lead edge is equal that (Lb) at the rear edge, there is no need to execute the following procedures of 4)  $\sim$  7).

- 4) Loosen the mirror base drive pulley fixing screw on the front frame side or on the rear frame side.
- When La < Lb
   Turn the mirror base drive pulley on the rear frame side in the arrow direction B. (Do not move the mirror base drive pulley shaft.)
  - When La > Lb
     Turn the mirror base drive pulley on the front frame side in the arrow direction A. (Do not move the mirror base drive pulley shaft.)



5) Tighten the mirror base drive pulley fixing screw.

## <Adjustment specification>

La = Lb

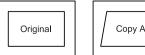
# (4) Sub scanning direction (scanning direction) distortion adjustment

When there is no skew copy in the mirror base scanning direction and there is no horizontal error (right angle to the scanning direction), the adjustment can be made by adjusting the No. 2/3 mirror base unit rail height.

Before performing this adjustment, be sure to perform the horizontal image distortion adjustment in the laser scanner section.

This adjustment must be performed in the following cases:

- When the mirror base wire is replaced.
- When the copy lamp unit or No. 2/3 mirror unit is replaced.
- When the mirror unit rail is replaced or moved.
- When a following copy is made.

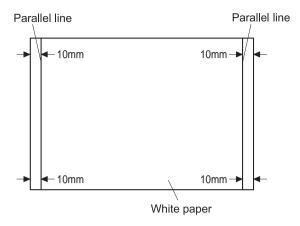




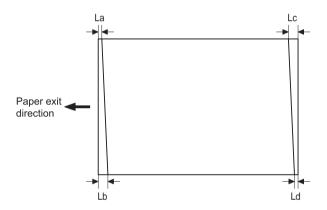
#### AR-161

#### 1) Making of a test sheet

Make test sheet by drawing parallel lines at 10mm from the both ends of A3 (11" x 17") white paper as shown below. (These lines must be correctly parallel to each other.)

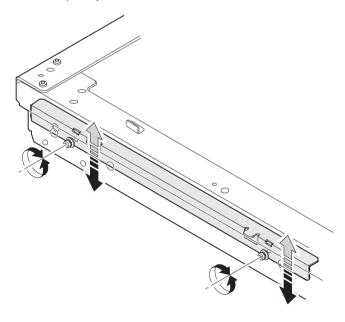


- 2) Make a normal (100%) copy of the test sheet on A3 (11" x 17") paper. (Fit the paper edge with the glass holding plate edge.)
- Measure the distances (La, Lb, Lc, Ld) at the four corners as shown below.



When La = Lb and Lc = Ld, no need to perform the procedures 4) and 5).

 Move the mirror base B rail position up and down (in the arrow direction) to adjust.



When La > Lb

Shift the mirror base B rail upward by the half of the difference of La – Lb.

When La < Lb</li>

Shift the mirror base B rail downward by the half of the difference of Lb – La.

Example: When La = 12mm and Lb = 9mm, shift the mirror

base B rail upward by 1.5mm.

When Lc > Ld

Shift the mirror base B rail downward by the half of the difference of Lc – Ld.

• When Lc < Ld

Shift the mirror base B rail downward by the half of the difference of Ld – Lc.

\*When moving the mirror base rail, hold the mirror base rail with your hand.

#### <Adjustment specification>

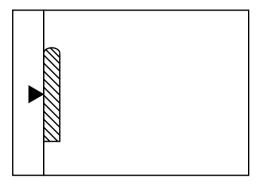
La = Lb, Lc = Ld

- 5) After completion of adjustment, manually turn the mirror base drive pulley, scan the mirror base A and mirror base B fully, and check that the mirror bases are not in contact with each other.
- If the mirror base rail is moved extremely, the mirror base may be in contact with the frame or the original glass. Be careful to avoid this

# (5) Main scanning direction (FR direction) magnification ratio adjustment (SIM 48-1)

Note: Before performing this adjustment, be sure to check that the CCD unit is properly installed.

1) Put a scale on the original table as shown below.



- 2) Execute SIM 48-1.
- After warmup, shading is performed and the current set value of the main scanning direction magnification ratio is displayed on the display section in 2 digits.
- 4) Select the mode and press the start key again.
- 5) Auto correction mode (AE lamp ON)

The mirror unit moves to the shading position, and the reference width of the reference white plate is scanned, and the correction value is automatically calculated from that scanned value.

The correction value is displayed and a copy is made.

- 6) Compare the scale image and the actual scale.
  - If a fine adjustment is required, switch to the manual correction mode with the magnification ratio display key and perform fine adjustment.
- 7) Manual correction mode (TEXT lamp ON)

Enter the set value and press the start key.

The set value is stored and a copy is made.

#### <Adjustment specification>

Mode	Specification	SIM	Set value	Set range
Main scanning	At normal:	SIM	Add 1:	1 ~ 99
direction	±1.0%	48-1	0.1% increase	
magnification			Reduce 1:	
ratio			0.1% decrease	

• Error in the auto correction mode

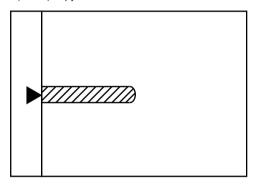
Display	Content	Major cause
Copy quantity display ""	The correction value calculated is over 5%.	Improper position of reference width line of the reference white plate
		<ul> <li>Improper installation of CCD unit</li> </ul>
Paper jam lamp ON	Reference line scanning error	<ul><li>Defective CCD</li><li>No reference white plate</li></ul>

# (6) Sub scanning direction (scanning direction) magnification ratio adjustment (SIM 48-2, SIM 48-5)

#### a. OC mode in copying

Note: • Before performing this adjustment, be sure to check that the CCD unit is properly installed.

1) Put a scale on the original table as shown below, and make a normal (100%) copy.



- 2) Compare the scale image and the actual image. If necessary, perform the following adjustment procedures.
- 3) Execute SIM 48-2.
- 4) After warmup, shading is performed and the current set value of the sub scanning direction magnification ratio is displayed on the display section in 2 digits.
- 5) Enter the set value and press the start key. The set value is stored and a copy is made.

#### <Adjustment specification>

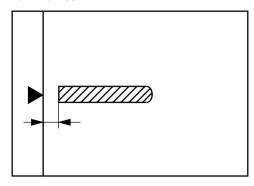
Mode	Specification	SIM	Set value	Set range
Sub scanning	Normal	SIM	Add 1:	1 ~ 99
direction	±1.0%	48-2	0.1% increase	
magnification			Reduce 1:	
ratio			0.1% decrease	
(OC mode)				

#### b. SPF mode in copying

Note: • Before performing this adjustment, be sure to check that the CCD unit is properly installed.

Before performing this adjustment, the OC mode adjustment in copying must be completed.

1) Put a scale on the original table as shown below, and make a normal (100%) copy to make a test chart.



Note: Since the printed copy is used as a test chart, put the scale in parallel with the edge lines.

- 2) Set the test chart on the SPF and make a normal (100%) copy.
- Compare the scale image and the actual image. If necessary, perform the following adjustment procedures.
- 4) Execute SIM 48-5.
- After warmup, shading is performed and the current set value of the sub scanning direction magnification ratio is displayed on the display section in 2 digits.
- Enter the set value and press the start key.
   The set value is stored and a copy is made.

#### <Adjustment specification>

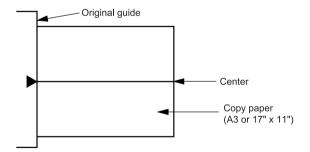
Mode	Specification	Mode	SIM	Set value	Set range
Sub scannir	ng Normal	ub scanning	SIM	Add 1:	1 ~ 99
direction	±1.0%	irection	48-5	0.1% increase	
magnificatio	n	nagnification		Reduce 1:	
ratio		atio		0.1% decrease	
(SPF mode)	)	SPF mode)			

## (7) Off center adjustment (SIM 50-13, SIM 50-16)

#### a. OC mode

Note: • Before performing this adjustment, be sure to check that the paper off center is properly adjusted. (SIM 50-10)

- Make a test chart as shown below and set it so that its center line is fit with the original guide center mark.
  - \* To make a test chart, draw a line on A3 or 11" x 17" paper at the center in the paper transport direction.



- 2) Make a normal copy from the manual paper feed tray, and compare the copy and the test chart.
- If necessary, perform the following adjustment procedures.

  3) Execute SIM 50-13.
- After warmup, shading is performed and the current set value of the off center adjustment is displayed on the display section in 2 digits
- 5) Enter the set value and press the start key. The set value is stored and a copy is made.

#### <Adjustment specification>

Mode	Specification	SIM	Set value	Set range
Original off center mode (OC mode)	Single: Center ± 2.0mm Duplex: Center ±2.5mm	SIM 50-18	Add 1: 0.1mm shift to R side Reduce 1: 0.1mm shift to L side	1 ~ 99

#### b. SPF mode

Note: • Before performing this adjustment, be sure to check that the paper off center is properly adjusted.

 Make a test chart for the center position adjustment and set it on the SPF.

#### <Adjustment specification>

Draw a line on a paper in the scanning direction.

- Make a normal copy from the manual paper feed tray, and compare the copy and the original test chart.
   If necessary, perform the following adjustment procedures.
- 3) Execute SIM 50-16.
- 4) After warmup, shading is performed and the current set value of the off center adjustment at each paper feed port is displayed on the display section in 2 digits.
- 5) Enter the set value and press the start key. The set value is stored and a copy is made.

#### <Adjustment specification>

Mode	Specification	SIM	Set value	Set range
Original	Single:	SIM	Add 1:	1 ~ 99
off center	Center ± 3.0mm	50-16	0.1mm shift to	
mode	Duplex:		R side	
(SPF	Center ±3.5mm		Reduce 1:	
mode)			0.1mm shift to	
			L side	

## (8) Original sensor adjustment (SIM 43-3)

- 1) Execute SIM 41-2.
- 2) Set A3 (11" x 17") paper on the OC table.
- 3) Press the start key again.
- The sensor level of the original sensor is automatically checked and the value with an original - 40 is made as the threshold value for scanning. (Automatic setting)
- 5) Execute SIM 43-3.
- 6) The light reception level of the original sensor is displayed.

The first digit of the copy quantity display shows "A": Light reception level display

The first digit of the copy quantity display shows "b": Original judgement level display

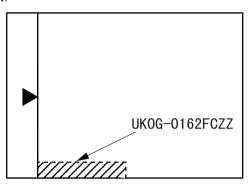
(The mode selection is made with the magnification ratio display key.)

By changing the paper set on the original table, the original size LED sensed by the sensor is lighted.

#### C. Image density adjustment

## (1) Copy mode (SIM 46-1)

1) Set a test chart (UKOG-0162FCZZ) on the OC table as shown below.



- Put several sheets of A3 or 11" x 17" white paper on the test chart.
- 3) Execute SIM 46-1.
- After warmup, shading is performed and the current set value of the density level is displayed on the display section in 2 digits.
   For mode selection, use the density select key.
- Change the set value with the 10-key to adjust the copy image density.
- 6) Make a copy and check that the specification below is satisfied.

#### <Adjustment specification>

Density mode	Display lamp	Exposure level	Sharp Gray Chart output	Set value	Set range
Auto	Auto	_	"3" is slightly copied.	The greater the set value is, the	1 ~ 99
Manual	Manual	3	"3" is slightly copied.	greater the density is.	
Photo	Photo	3	"3" is slightly copied.	The smaller the set value is, the	
Toner save	Manual/ Photo	3	"3" is slightly copied.	smaller the density is.	

## [8] SIMULATION

## 1. Entering the simulation mode

Perform the following procedure to enter the simulation mode. Clear key  $\to$  Interruption key  $\to$  Shift key  $\to$  Interruption key  $\to$  Start key  $\to$  Sub code  $\to$  Start key

## 2. Cancelling the simulation mode

When the all clear key is pressed, the simulation mode is cancelled. When the interruption key is pressed, the process is interrupted and the screen returns to the sub code entering display.

## 3. List of simulations

Main code	Sub code	Contents
1	1	Mirror unit operation check
'	2	Optical system sensor operation check
2	1	SPF aging
	2	SPF sensor operation check
	3	SPF motor forward rotation operation check
	4	SPF motor reverse rotation operation check
	8	SPF paper feed solenoid operation check
	9	SPF reverse solenoid operation check
	10	SPF paper exit gate solenoid operation check
	11	SPF PS release solenoid operation check
3	2	Shifter job separator sensor operation check
	3	Shifter operation check
	4	Job separator operation check
	10	Job separator home position check
5	10	Operation panel display check
3	2	Heater lamp lighting check, cooling fan motor
	2	operation check
	3	Copy lamp lighting check
6	1	Paper feed solenoid operation check
	10	Main cassette semi-circular roller drive
7	1	Aging with JAM with warmup time display
'	2	Aging without JAM with warmup time display
	4	Warmup saving
	6	Intermittent aging (with paper)
	7	Intermittent aging (without paper)
	8	Warmup time display
8	1	Developing bias voltage output check
	2	Main charger voltage output check (Grid bias high
	_	mode)
	3	Main charger voltage output check (Grid bias low
		mode)
	6	Transfer charger voltage check
9	1	Duplex motor forward rotation operation check
	2	Duplex motor reverse rotation operation check
	4	Duplex motor rotation speed adjustment
	5	Duplex motor switchback time adjustment
10		Toner motor operation check
14		Trouble (except for U2) cancel
16		U2 trouble cancel
17		PF trouble cancel
20	1	Maintenance counter clear
21	1	Maintenance cycle setting
	2	Mini maintenance counter display
22	1	Maintenance counter display
	2	Maintenance preset value display
-		

Main	Cult	
Main code	Sub code	Contents
22	3	JAM memory display
	4	Total JAM counter display
	5	Total counter display
	6	Developing counter display
	7	Developing preset counter value display
	8	SPF counter display
	9	Paper feed counter display
	12	Drum counter display
	14	Flash ROM version display
	15	Trouble memory display
	16	Duplex print counter display
	17	Copy counter display
	18	Printer counter display
	19	Electronic sort counter display
	20	FAX print counter display
	21	Scanner counter display
24	1	JAM memory, JAM counter clear
	2	Trouble memory clear
	4	SPF counter clear
	5	Duplex counter clear
	6	Paper feed counter clear
	7	Drum counter clear
	8	Copy counter clear
	9	Printer counter clear
	10	Electronic sort counter clear
	11	FAX print counter clear
	13	Scanner counter clear
25	1	Main motor operation check
	10	Polygon motor operation check
26	1	Operation switch display
	3	Auditor setting
	5	Counter mode setting
	6	Destination setting
	22	Language setting
	30	CE mark conformity control setting
30	1	Machine sensor operation check
41	2	OC document sensor adjustment
	3	Document sensor light reception level display
42	1	Developer counter clear
43	1	Fusing temperature setting
46	1	Copy density level adjustment
	2	FAX density level adjustment
48	1	Main scanning (front/rear) direction magnification
		ratio adjustment(Copy/FAX/OC-SPF common)
	2	OC mode sub scanning direction magnification
		ratio adjustment in copying
	5	SPF mode sub scanning direction magnification
		ratio adjustment in copying
	6	OC mode sub scanning direction magnification ratio adjustment in FAX
	7	SPF mode sub scanning direction magnification
	′	ratio adjustment in FAX
50	1	Copy image lead edge position adjustment
	10	Paper off center adjustment
	13	OC mode document off center adjustment
	16	SPF mode document off center adjustment
51	2	Resist amount adjustment
63	1	Shading data check
64	1	Self printing mode
69	1	Program download mode

## 4. Contents of simulations

Main code	Sub code	Contents	Details o	of operation	Initial value	Set range	
1	1	Mirror unit operation check	Used to execute scanning at the sp nification ratio.	peed corresponding to the set mag-	100%	50 ~ 200%	
			Key operation	Display			
			Changing the magnification ratio: Fixed magnification ratio key	Set magnification ratio: Fixed magnification ratio LED			
	2	Optical system sensor operation check	Used to check MHPS (Mirror home position sensor) ON/OFF state with the LED on the operation panel.				
			Disp	olay			
			<lighting is="" on="" sensor="" the="" when=""> MHPS: Paper empty LED</lighting>				
2	1	SPF aging	Used to perform SPF document trans The paper size is not detected. (Excl 1m or greater.) With SPF installed: Single transport With RSPF installed: Duplex transport				
	2	SPF sensor operation	Used to check sensors in SPF with the				
		check	Clighting at sensor ON> PW1: JAM LED PW2: Paper empty LED	olay			
			PW3: Machine position JAM LED PW4: SPF JAM LED PL1: Manual paper feed tray select	LED			
			PL2: Second cassette position JAM P-IN: SPF select LED				
			P-OUT: Main cassette select LED				
	3	SPF motor forward rotation operation check	Used to rotate the SPF motor forwar currently set magnification ratio for 10		100%	50 ~ 200%	
			Key operation  Magnification ratio change:  Fixed magnification ratio key	Display Set magnification ratio: Fixed magnification ratio LED			
	4	SPF motor reverse rotation operation check	Used to rotate the SPF motor reverse	, , ,			
	8	SPF paper feed solenoid operation check	Used to drive the SPF paper feed 500msec ON and 500msec OFF 20 t				
	9	SPF reverse solenoid operation check	Used to drive the SPF reverse solen ON and 500msec OFF 20 times.				
	10	SPF paper exit gate solenoid operation check	Used to drive the SPF paper exit ga 500msec ON and 500msec OFF 20 t				
	11	SPF PS release solenoid operation check	Used to drive the SPF PS release so and 500msec OFF 20 times.	olenoid at the cycle of 500msec ON			
3	2	Shifter job separator sensor operation check	Used to check the sensors state in the on the operation panel.	ne shifter job separator with the LED			
			Disp	olay			
			<lighting at="" on="" sensor=""></lighting>				
			Shifter HP sensor: Machine position				
			Job separator HP sensor: SPF JAM Paper exit full sensor: Second cass				
	3	Shifter operation check	Used to drive the shifter motor at the start key or the common home position.				
			Key op				
			The shifter is moved to the home po	osition: Start key or clear all key			

N.4 - 1	C - 1				Letter 1		
Main code	Sub code	Contents		Details of operation	Initial value	Set range	
3	4	Job separator operation check	Used to drive the job separator at the hor	arator one way. Pressing the clear key stops me position.			
				Key operation			
			Stops at the home positio	n: Clear all key			
	10	Job separator home position check	the specified number of ste	ator to the home position. Then it is shifted by eps for check, and the position is made as the origin by the specified number of steps.			
5	1	Operation panel display check	Used to light all LED's on the	ne operation panel for 5 sec.			
	2	Heater lamp lighting check, cooling fan motor operation check	times. At the same time, th	er lamp for 500msec and OFF for 500msec 5 e cooling fan is rotated at a high speed. After operation, the cooling fan motor rotate at a low			
	3	Copy lamp lighting check	brightness can be changed	Jsed to light the copy lamp for 5 sec. At that time, the copy lamp rightness can be changed with the density adjustment key. When this imulation is canceled, the copy lamp brightness if automatically ad-			
				Key operation			
			Copy lamp brightness: De	ensity adjustment key			
6	1	Paper feed solenoid operation check		ed, the selected paper feed solenoid is driven and 500msec OFF 20 times.			
			Key operation	Display			
			Solenoid selection:	<lighting at="" selection="" solenoid=""></lighting>			
			Tray select button	Main cassette paper feed solenoid:  Main cassette select LED			
				Multi manual paper feed solenoid: Manual paper feed select LED			
				No. 2 cassette paper feed solenoid: No. 2 cassette select LED			
				No. 3 cassette paper feed solenoid: No. 3 cassette select LED			
				No. 4 cassette paper feed solenoid: No. 4 cassette select LED			
				Resist roller solenoid:  Machine position JAM LED			
				No. 2 cassette transport solenoid: No. 2 cassette position JAM LED			
				No. 3 cassette transport solenoid: No. 3 cassette position JAM LED			
				No. 4 cassette transport solenoid: No. 4 cassette position JAM LED			
				Paper out 1 solenoid: Paper empty LED			
				Paper out 2 solenoid: SPF JAM LED			
			<u> </u>	Paper out 3 solenoid: SPF select LED			
	10	Main cassette semi-circular roller drive	Used to rotate the semi-ci face it downward.	rcular roller of the main cassette one turn to			
7	1	Aging with JAM with warmup time display	Used to start warmup and second. After completion ready lamp is lighted. Wh quantity is entered and the the set quantity of copies.		1 ~ 9		
				Key operation			
			Copy quantity setting: Nur	meric keys			

Main code	Sub code	Contents	Details of operation	Initial value	Set range
7	2	Aging without JAM with warmup time display	Used to start warmup and count and display the warmup time every second. After completion of warmup, count up is terminated and the ready lamp is lighted. When the clear key is pressed and the copy quantity is entered and the start key is pressed, copying is made to make the set quantity of copies. At that time, the paper size does not matter.		1 ~ 99
			Key operation Copy quantity setting: Numeric keys		
	4	Warmup saving	Used to bring the machine to the ready state without warmup.		
	6	Intermittent aging (with paper)	After completion of warmup, counting is stopped and the ready lamp is lighted. When the copy quantity is entered and the start key is pressed, copying is made to make the set quantity of copies. After 3 sec standby, copying is made again to make the set quantity of copies. After that this operation is repeated. The paper size does not matter.		1 ~ 99
			Key operation Copy quantity setting: Numeric keys		
	7	Intermittent aging (without paper)	After completion of warmup, counting is stopped and the ready lamp is lighted. When the copy quantity is entered and the start key is pressed, copying is made to make the set quantity of copies. After 3 sec standby, copying is made again to make the set quantity of copies. After that this operation is repeated. The paper size does not matter.		1 ~ 99
			Key operation		
			Copy quantity setting: Numeric keys		
	8	Warmup time display	Used to count and display the warmup time from 0 at every second.		
8	1	Developing bias voltage	Used to output the developing bias for 30 sec. For the adjustment proce-		
		output check	dure of the developing bias, refer to the previous descriptions.		
	2	Main charger voltage output check (Grid bias high mode)	Used to output the main charger grid bias voltage at the high mode for 30 sec. For the adjustment procedure of the main charger grid bias voltage, refer to the previous descriptions.		
	3	Main charger voltage output check (Grid bias low mode)	Used to output the main charger grid bias voltage at the low mode for 30 sec. For the adjustment procedure of the main charger grid bias voltage, refer to the previous descriptions.		
	6	Transfer charger voltage check	Used to output the transfer charger voltage for 30 sec. For the adjustment procedure of the transfer charger voltage, refer to the previous descriptions.		
9	1	Duplex motor forward rotation operation check	Used to rotate the duplex motor forward for 30 sec.		
	2	Duplex motor reverse rotation operation check	Used to rotate the duplex motor reversely for 30 sec.		
	4	Duplex motor rotation speed adjustment	After completion of warmup, the ready lamp is lighted and the currently set duplex motor rotation speed set value is displayed.  When the set value is entered and the start key is pressed, the set value is stored.		
			Key operation  Duplex motor rotation speed set value: Numeric keys		
	5	Duplex motor switchback time adjustment	After completion of warmup, the ready lamp is lighted and the currently set duplex motor switchback time set value is displayed.  When the set value is entered and the start key is pressed, the set value is stored.		
			Key operation  Duplex motor switchback time set value: Numeric keys		
10		Toner motor operation check	Used to operate the toner motor for 30 sec.  Note: If this simulation is executed with the toner hopper installed, toner is automatically supplied to the developer. Be careful of overtoner.		
14		Trouble (except for U2) cancel	Used to cancel troubles except for U2.		
16 17		U2 trouble cancel PF trouble cancel	Used to cancel U2 trouble. Used to cancel PF trouble.		
			!		

Main code	Sub code	Contents	Details of operation	Initial value	Set range
20	1	Maintenance counter clear	Used to clear the maintenance counter. *2		
21	1	Maintenance cycle setting			
			Key operation/Display		
			0: 2500 sheets		
			1: 5000 sheets		
			2: 15000 sheets 3: 30000 sheets		
			4: 150000 sheets		
			5: FREE (999999 sheets)		
	2	Mini maintenance counter display	Used to display the currently set mini maintenance cycle at the numbers shown at right. When the set value is entered and the start key is pressed, the set value is stored.		
			Key operation/Display		
			0: 2500 sheets		
			1: 5000 sheets		
			2: 10000 sheets		
			3: FREE (999999 sheets)		
22	1	Maintenance counter display	Used to display the current maintenance counter value. *1		
	2	Maintenance preset value display	Used to display the current maintenance preset value (set with SIM 21-1). *1		
	3	JAM memory display	Used to display a JAM generated during copying on the JAM position display on the operation panel. Max. 30 recent jams are stored.		
			Key operation   Display		
	4	Total JAM counter display	Used to display the current total JAM counter value. *1		
	5	Total counter display	Used to display the current total counter value. *1		
	6	Developing counter display	Used to display the current developing unit counter value. *1		
	7	Developing preset counter value display	Used to display the current mini maintenance preset value (set with SIM 21-2). *1		
	8	SPF counter display	Used to display the current SPF counter value. *1		
	9	Paper feed counter display	Used to display the current paper feed counter value for each paper feed port. *1		
			Key operation Paper feed port selection: Tray select key		
	12	Drum counter display	Used to display the current drum counter value. *1		
	14	Flash ROM version display	Used to display the version number of the flash ROM of each PWB.		
	15	Trouble memory display	Used to display the actually occurred trouble codes on the display on the operation panel. When the start key is pressed during the main code display, the sub code is displayed. Max. 20 recent trouble codes are stored.		
			Key operation   Display		

<sup>\*1:</sup> Each counter display method

To display 12345: 123 (0.75 sec)  $\rightarrow$  Blank (0.35sec)  $\rightarrow$  456 (0.75 sec)  $\rightarrow$  Blank (1.0 sec)  $\rightarrow$  repetition

<sup>\*2:</sup> Display after clearing each counter 000 (0.75 sec)  $\rightarrow$  Blank (0.35sec)  $\rightarrow$  000 (0.75 sec)  $\rightarrow$  Blank (1.05 sec)  $\rightarrow$  Repetition

Main code	Sub code	Contents		Details of operation	Initial value	Set range			
22	16	Duplex print counter display	Used to display the currer	Used to display the current duplex print counter value. *1					
	17	Copy counter display	Used to display the currer						
	18	Printer counter display	Used to display the currer	Used to display the current printer counter value. *1					
	19	Electronic sort counter display	Used to display the currer	nt electronic sort counter value. *1					
	20	FAX print counter display	Used to display the currer	nt FAX print counter value. *1					
	21	Scanner counter display	Used to display the currer	Used to display the current scanner counter value.					
24	1	JAM memory, JAM counter clear	Used to clear the JAM me	emory and the JAM counter. *2					
	2	Trouble memory clear	Used to clear the trouble i	memory. *2					
	4	SPF counter clear	Used to clear the SPF cou	unter. *2					
	5	Duplex counter clear	Used to clear the duplex of						
	6	Paper feed counter clear	Used to clear the paper fe	eed counter. *2					
	7	Drum counter clear	Used to clear the drum co						
	8	Copy counter clear	Used to clear the copy co	unter. *2					
	9	Printer counter clear	Used to clear the printer of	counter. *2					
	10	Electronic sort counter clear	Used to clear the electron	Used to clear the electronic sort counter. *2					
	11	FAX print counter clear	Used to clear the FAX prin						
	13	Scanner counter clear	Used to clear the scanner	counter.					
25	1	Main motor operation check	rotates at a low speed.  When the developing unithe main charger are drive	notor for 30 sec. At that time, the cooling motor t is installed, the developing bias, the grid, and en. is not installed, only the main motor is driven.					
	10	Polygon motor operation check	Used to drive the polygon	motor for 30 sec.					
26	1	Operation switch display							
			Key operation	Display					
			Display select:  Magnification ratio key	<lighting an="" installed="" option="" with=""> When "A" is displayed: Shifter: Paper empty LED Job separator: JAM LED SPF: SPF select LED RSPF: SPF JAM LED Dehumidifying heater: Main body JAM LED Simplex mode: Multi manual paper feed select LED When "B" is displayed: Cassette (2nd step): No. 2 cassette select LED Cassette (3rd step): No. 3 cassette select LED Cassette (4th step): No. 4 cassette select LED Memory installed: Paper empty LED FAX: JAM LED Printer: Main body JAM LED ERDH: Main cassette select LED 16CPM: SPF JAM LED 20CPM: SPF select LED Document sensor: Auto paper select LED</lighting>					
	3	Auditor setting	After entering the set va stored.	nt auditor setting with the numbers at right.  Ilue, press the start key, and the set value is  Key operation/Display					

<sup>\*1:</sup> Each counter display method

To display 12345: 123 (0.75 sec)  $\rightarrow$  Blank (0.35sec)  $\rightarrow$  456 (0.75 sec)  $\rightarrow$  Blank (1.0 sec)  $\rightarrow$  repetition

000 (0.75 sec)  $\rightarrow$  Blank (0.35sec)  $\rightarrow$  000 (0.75 sec)  $\rightarrow$  Blank (1.05 sec)  $\rightarrow$  Repetition

<sup>\*2:</sup> Display after clearing each counter

Main code	Sub code	Contents	Details of operation	Initial value	Set range
26	5	Counter mode setting	Used to set the print counter mode in A3 or $11" \times 17"$ . Used to display the currently set counter value with the numbers at right. After entering the set value, press the start key, and the set value is stored.		
			Key operation/Display  0: Total/Developer = 2 counts		
	6	Destination setting	Used to display the current destination setting with the numbers at right. After entering the set value, press the start key, and the set value is stored.		
			Key operation/Display  0: Japan  1: USA (Inch series)  2: Canada (Inch series)  3: Germany (AB series)  4: UK (AB series)  5: Australia (AB series)  6: France (AB series)  7: EX inch series  8: EX AB series  9: EX inch series (FC conformity)  10: EX AB series (FC conformity)  11: Taiwan, China (AB series)		
	22	Language setting	Used to display the current setting of the language information with the number at right. After entering the set value, press the start key, and the set value is stored.  Key operation/Display  0: Japanese  1: English  2: French  3: German  4: Italian  5: Dutch  6: Swedish  7: Spanish		
	30	CE mark conformity control setting	Used to display the current setting of CE mark conformity control with the number at right. After entering the set value, press the start key, and the set value is stored.  Key operation/Display  0: CE mark control OFF  1: CE mark control ON		
30	1	Machine sensor operation check	Used to check the sensors in the machine transport system with LED on the operation panel.  Display <lighting at="" on="" sensor=""> Paper entry sensor: Machine position JAM LED Duplex sensor: SPF JAM LED Paper exit sensor: JAM LED No. 2 cassette transport sensor: No. 2 cassette position JAM LED No. 3 cassette transport sensor: No. 3 cassette position JAM LED No. 4 cassette transport sensor: No. 4 cassette position JAM LED</lighting>		
41	2	OC document sensor adjustment	Used to read the document sensor input value with paper and perform the sensor detection level adjustment. For the adjustment procedure of the document sensor input value, refer to the previous descriptions.		

Main code	Sub code	Contents	Di	etails of operation	Initial value	Set range
41	3	Document sensor light reception level display		ption level and the detection level of the or level adjusted with SIM 41-2 is dis-		
			Key operation	Display		
			Light reception/Detection	Display at the 3rd digit		
			level select: Magnification	"A": Light reception level display		
			ratio display key	"b": Document detection level		
			Sensor select: Magnification	lighting LED		
			ratio select key	Sensor A: A3 document size LED		
			,	Sensor B: A4 document size LED		
				Sensor C: A4R document size LED		
				Sensor D: B4 document size LED		
				Sensor D. B4 document size LLD		
42	1	Developer counter clear	Used to clear the developer co			
43	1	Fusing temperature setting	number at right. After selection	etting of the fusing temperature with the ng the fusing temperature with the mag- ress the start key, and the set value is		
			l l	Key operation		
			Fusing temperature select: M	agnification ratio display key		
40		0 1 " 1 1	A6 1 6			4 00
46	1	Copy density level adjustment	hading is performed and the currently set d. For the adjustment procedure, refer to		1 ~ 99	
			Key operation	Display		
			Mode select: Mode select key	<led at="" each="" lighting="" mode="" selection=""></led>		
				Auto mode: AE LED		
				Manual mode: TEXT LED		
				Photo mode: PHOTO LED		
				Toner save mode: TEXT/PHOTO LED		
	2	FAX density level adjustment		hading is performed and the currently set For the adjustment procedure, refer to the		1 ~ 99
			Key operation	Display		
				<led at="" each="" lighting="" mode="" selection=""></led>		
			Mode select key	Standard mode: Standard LED		
				Small character mode:		
				Small character LED		
				Fine mode: Fine LED		
				Ultra fine mode: Ultra fine LED		
				Photo mode: Photo LED		
48	direction magnification ratio adjustment		main scanning (front/rear) dire	hading is performed and the currently set ction magnification ratio adjustment is per- ocedure, refer to the previous descriptions.		1 ~ 99
		(Copy/FAX/OC-SPF common)	Key operation	Display		
			Adjustment mode select: Magnification ratio key	Auto magnification ratio adjustment: AE LED		
			Manual main scanning direction magnification ratio adjustment	Manual magnification ratio adjustment: TEXT LED		
			Set value: Numeric keys			
			Set value. Ivuillelle keys			

<sup>\*1:</sup> Each counter display method

To display 12345: 123 (0.75 sec)  $\rightarrow$  Blank (0.35sec)  $\rightarrow$  456 (0.75 sec)  $\rightarrow$  Blank (1.0 sec)  $\rightarrow$  repetition

000 (0.75 sec)  $\rightarrow$  Blank (0.35sec)  $\rightarrow$  000 (0.75 sec)  $\rightarrow$  Blank (1.05 sec)  $\rightarrow$  Repetition

<sup>\*2:</sup> Display after clearing each counter

Main	Sub	Contents	Details of operation	n	Initial value	Set range
code 48	code 2	OC mode sub scanning direction magnification ratio adjustment in copying	After completion of warmup, shading is performed and the currently set OC mode sub scanning direction magnification ratio adjustment in copying is performed. For the adjustment procedure, refer to the previous descriptions.			1 ~ 99
			Key operation  OC mode sub scanning direction copy magnification copy	ication ratio in copying:		
	5	SPF mode sub scanning direction magnification ratio adjustment in copying	After completion of warmup, shading is perform OC mode sub scanning direction magnificat copying is performed. For the adjustment provious descriptions.	tion ration adjustment in		1 ~ 99
			Key operation SPF mode sub scanning direction magnification Numeric keys	on ratio in copying:		
	6	OC mode sub scanning direction magnification ratio adjustment in FAX	After completion of warmup, shading is perform OC mode sub scanning direction magnification is performed. For the adjustment procedure descriptions.	n ratio adjustment in FAX		1 ~ 99
			Key operation  OC mode sub scanning direction magnification ratio in FAX: Numeric keys			
	7	SPF mode sub scanning direction magnification ratio adjustment in FAX	After completion of warmup, shading is perform SPF mode sub scanning direction magnificate formed. For the adjustment procedure, refer to the sub-scanning direction magnification in the sub-scanning direction magnification is sub-scanning direction magnification.	tion ratio in FAX is per- the previous descriptions.		1 ~ 99
50	1	Copy image position adjustment	After completion of warmup, shading is perforr value is displayed. For the adjustment proced descriptions.			1 ~ 99
			Exposure mode select key Set value: Numeric keys Photo: Left edg Auto + Manual	Display diation timing adjustment edge void adjustment ge void adjustment + Photo: ar edge void adjustment		
	10	Paper off center adjustment	After completion of warmup, shading is perform off center adjustment of each paper feed proposed adjustment procedure, refer to the previous description.  Key operation  Paper feed port tray select: Paper select key  Off center adjustment value:  numeric keys  Main cass Main cas Manual pa Manual No. 2 cass No. 2 cass No. 3 cass No. 3 cass No. 3 cass No. 4 cass	med and the currently set out is displayed. For the scriptions.  Display lette: In the second of the		

Main code	Sub code	Contents	Details of operation	Initial value	Set range
50	13	OC mode document off center adjustment	After completion of warmup, shading is performed and the currently set off center adjustment value for the document in OC reading is displayed. For the adjustment procedure, refer to the previous descriptions.		
			Key operation Off center adjustment value: Numeric keys		
	16	SPF mode document off center adjustment	After completion of warmup, shading is performed and the currently set off center adjustment value for the document in SPF reading is displayed. For the adjustment procedure, refer to the previous descriptions.		
			Key operation Off center adjustment value: Numeric keys		
51	51 2 Resist amount adjustmen		After completion of warmup, shading is performed and the currently set resist amount adjustment value is displayed.		
			Key operation		
			Resist amount adjustment: Numeric keys		
63	1	Shading data check	The copy lamp is shifted to the shading position and it is lighted with the reference voltage at AD conversion fixed ( $Vref-=0.5V$ , $Vref+=4.5V$ ). This state is kept for 10 sec, and the level of one pixel at the center is displayed for each second.		
			Display Display section: Shading data		
64	1	Self print mode	Disregards the optical system and performs self printing in 1 by 2mode.		
			Key operation Copy quantity setting: Numeric keys		
69	1	Program download mode	When entering this mode, the machine in the download mode and accepts no key entry.  When the power is turned off, the download mode is cleared.		

# [9] USER PROGRAM

The factory setting can be changed according to the operating conditions.

## 1. User program functions

Function	Outline	Default				
Auto clear	When a certain time is passed after completion of the machine operation, the mode is returned to the initial state automatically.  The time to return to the initial state can be set in the range of 30 ~ 120 sec by the unit of 30 sec. This function can be canceled.	60 sec				
Pre-heat	When the machine is left unused with the power ON, the power consumption level i automatically lowered to about 60Wh (*1). The time to operate this function can be set i the range of 30 sec ~ 120 sec by the unit of 30 sec. This function can be canceled. When this function operates, the pre-heat lamp on the operation panel lights up. To cancel the pre-heat state, press any key on the operation panel. (When the START key is pressed, pre-heat is canceled and copying is started,) This function is canceled with the document is set or the tray is pulled out.					
Auto power shut off passing time	When the machine is left unused with the power ON, the power consumption is automatically lowered to about 4.8Wh (*1). The time to operate this function can be set in the range of 30 min to 240 min. When this function operates, all the lamps except for the pre-heat lamp turn off.  To cancel the auto power shut off state, press the START key.	30 min				
Stream feeding mode (with SPF/R-SPF installed)	After making copy with SPF/R-SPF, the document feed display lamp blinks, set the document, and the document is automatically fed.	Cancel				
Auto power shut off setting	The auto power shut off function can be canceled.	Setting				
2 in 1/4 in 1 solid line frame setting (with electronic sort board, SPF/R-SPF installed)	Images on two or more pages are copied on one sheet of paper (2 in 1/4 in 1). When this function is used, copying can be made with the solid lines at the boundaries of images.	Setting				
Rotation copy (With electronic sort board installed)	When the paper auto selection function is operating, if there is no paper of the suitable size or the suitable direction, paper of the same size but of different direction is automatically selected and the document images are rotated by 90 degrees to copy.  The magnification ratio auto select function operates and rotates document images by 90 degrees to make proper copy when the document images and the paper direction differ from each other.					
Paper auto selection	The paper of the same size as the document size selected by the document size set key (A3, B4, A4, A4R, B5, B5R 11" $\times$ 17", 8.5" $\times$ 14", 8.5" $\times$ 13", 8.5" $\times$ 11", 8.5" $\times$ 11"R, 8.5" $\times$ 5.5" only) is automatically selected. This function is canceled.	Setting				
Tray auto selection (with 1-step paper feed unit, 2-step paper feed unit installed)	The paper of the same size as the document size selected by the document size set key (A3, B4, A4, A4R, B5, B5R 11" $\times$ 17", 8.5" $\times$ 14", 8.5" $\times$ 13", 8.5" $\times$ 11", 8.5" $\times$ 11"R, 8.5" $\times$ 5.5" only) is automatically selected. This function is canceled.	Setting				
Department counter	Refer to "3. Department counter setting."					
Edge erase (with electronic sort board installed)	Shades around images and shades at the binding margin can be erased by this function. The erase range can be set in the range of 0 ~ 20mm by the unit of 5mm.	10mm				
2 in 1 layout (with electronic sort board, SPF/R-SPF installed)	The layout pattern for copying images of two pages on one page can be selected.	Pattern A				
	Pattern A Pattern B					
4 in 1 layout (with electronic sort board, SPF/R-SPF installed)	The layout pattern for copying images of four pages on one page can be selected.	Pattern A				
	Pattern A Pattern B Pattern C Pattern D					

 $<sup>\</sup>star$ 1: The power consumption in pre-heat, auto power shut off depends on the operating conditions.

## 2. Setting change procedure

Example: Changing the time for operating the auto clear function (from 60 sec to 120 sec)

- Press and hold the density adjustment key for 5 sec to start setting.
- 2) Select the function code with the numeric key.
  - The code of the selected function is displayed (blinking) on the digits of 10 and 100.
  - For auto clear, select 1.
  - Select the suitable code according to the table below.

#### User program setting contents

Function	Function code	Setting code
Auto clear	1	0 (Cancel)
		1 (30 sec)
		*2 (60 sec)
		3 (90 sec)
		4 (120 sec)
Pre-heat	2	0 (Cancel)
		1 (30 sec)
		2 (60 sec)
		*3 (90 sec)
		4 (120 sec)
Auto power shut off passing	3	*1 (30 sec)
time (*2)		2 (60 sec)
		3 (90 sec)
		4 (120 sec)
		5 (240 sec)
Stream feeding mode	4	*0 (Cancel)
		1 (Setting)
Auto power shut off function	5	0 (Cancel)
setting (*2)		*1 (Setting)
2 in 1/4 in 1 solid frame setting	6	*0 (Cancel)
		1 (Setting)
Rotation copy	7	0 (Cancel)
		*1 (Setting)
Paper auto selection	8	0 (Cancel)
		*1 (Setting)
Tray auto selection	9	0 (Cancel)
		*1 (Setting)
Department counter (*1)	10 ~ 15	
Edge erase	16	0 (0mm)
		1 (5mm)
		*2 (10mm)
		3 (15mm)
		4 (20mm)
2 in 1 layout (*3)	17	*1 (Pattern A)
		2 (Pattern B)
4 in 1 layout (*3)	18	*1 (Pattern A)
		2 (Pattern B)
		3 (Pattern B)
		4 (Pattern B)

- \* Setting at the factory shipping
- **★1**. For the setting procedure, refer to "3. Department counter."
- \*2. With the auto power shut off canceled (function code "5", set code "0", auto power shut off time setting code "3"), the mode enters the auto power shut off setting mode automatically.

- \*3. For the layout pattern, refer to page 9-1.
  - The number of the selected function blinks on the digit of 1 or the copy quantity display.

Cancel: When any key is pressed by mistake, press the clear key and press the proper key.

- 3) Press the START key.
  - The selected function code is changed from blinking to lighting.
  - The currently set code blinks on the digit of 1.
- 4) Select the setting code with the numeric key.
  - For setting to 80 sec, select [3].
  - Make setting referring to the setting codes of "User program setting contents."

Cancel: When any wrong key is pressed, press the clear key and resume from procedure 2.

- 5) Press the START key,
  - The selected setting code is changed from blinking to lighting.
     The setting is completed with the above operation.

Memo: To set another function, press the clear key after this procedure and resume from procedure 2.

- 6) Press the density adjustment key (1) to end the setting.
  - † ... ... | SN | lamps go off. The copy quantity display returns to the normal display.

#### 3. Department counter setting

Note: The department counter is effective only in copying. Counting is not made in FAX and printer output.

When the department counter is set, the copy count for each department (max. 20 dept.) can be made and displayed when necessary.

With the department counter set, copying cannot be made unless the registered number (password number of 3 digits) is entered.

- - 🙀 🚵 🔄 🕞 &√, lamps start blinking at the same time, and the copy quantity display displays "--" and the digit of 10 blinks.
- 2) Select the function code with the numeric key.
  - · Refer to the function code for setting

#### Setting contents of department counters

Function	Function code	
Setting content	10	Department counter setting or cancel. Factory setting: Cancel
Department counter setting/cancel	11	Department number recording. Max. 20 department can be recorded.
Department number recording	12	Recorded department number is changed.
Department number delete	13	Recorded number is deleted.
Copy quantity display (Total)	14	The copy quantity in each department is displayed. The count is made up to 49,999 sheets. From that, counting is started from 0.
Copy quantity delete (Total delete)	15	The counted copy quantity is canceled. The count of each department or that of all the departments can be deleted.

The entered number blinks on the digits of 100 and 10 on the copy quantity display.

Cancel: When a wrong key is pressed, press the clear key and enter the correct key.

- 3) Press the START kev.
  - The selected function code is changed from blinking to lighting.
  - The currently set code blinks on the digit of 1.

Cancel: When the "E" (error code) is lighted on the digit of 1, press the clear key and return to procedure 2.

4) Perform setting of the department counter.

Perform setting referring to "E Copy quantity delete" if

Perform setting referring to "F.Copy quantity delete" in "A. Department counter setting/cancel."

- Press the density adjustment key 
   do end the setting procedure.
  - † ... ⊹ □ 8\/ lamps go off.
  - The copy quantity display returns to the normal display.

# A. Department counter setting/cancel (Function code: 0)

Used to set or cancel the department counter. When this setting is made, the copy quantity display lights up with "--."

Under this state, the department number in 3 digits must be entered to operate the machine.

After entering the function code "0," use the numeric key to set or cancel the department counter.

 To set the department counter, select "1." To cancel, select "0." Then press the START key.

Memo: After this setting, use the "Department number recording" to record the department number of each department. (Max. 20 departments can be recorded.)

2) Press the clear key.

# B. Department number recording (Function code: 11)

Used to record the department number.

When the function code "1" is entered, the copy quantity display blinks with "--."

When the recorded department number reaches 20, the error code of "11E" is displayed.

- Use the numeric key to enter the number of 3 digits (except for 000) and press the START key.
  - When the recorded number or "000" is entered, the entered number blinks. In this case, enter another number.
  - To register another department number, repeat the same procedure 1) above.
- 2) After completion of recording, press the clear key.
  - The registered department number and each department name must be recorded. (Since the department name cannot be registered, they must be recorded for total calculation.)

### C. Department number change (Function code: 12)

Used to change the department number.

Enter the function code "12" and select the department number to be registered.

If there is no registered department number, the error code of "12E" is displayed.

- Select the department number with % key, and press the START key.
  - The copy quantity display shows "- - ."
- Use the numeric key to enter a new department number (3 digits except for 000), and press the START key.
  - When the recorded number or "000" is entered, the entered number blinks. In this case, enter another number.
  - To register another department number, repeat the same procedures 1) and 2) above.
- 3) After completion of changing, press the clear key.

#### D. Department number delete (Function code 13)

Delete the department number.

Enter the department code (13) and select all departments clear or specified department clear.

When there is no registered department number, the error code "13E" is displayed.

#### (1) All departments clear

- 1) Press "1" key.
- 2) Press the START key.

## (2) Specified department clear

- 1) Press "0" key.
- 2) Select the department number to be deleted with % key.
- 3) Press the START key.

# E. Copy quantity display (sum total) (Function code: 14)

The copy quantity of each department is displayed.

Enter the function code "14" and select the department number of which the total copy quantity is to be displayed.

If there is no registered department number, the error code "14E" is displayed.

- 1) Select the department number with % key.
- 2) Press and hold "0" key, and the copy quantity will be displayed.
  - The copy quantity is displayed in two steps.

(Example) Copy quantity: 12, 345



- To display the copy quantity of another department, repeat the same procedure 1) and 2).
- 3) Press the clear key to terminate the procedure.

# F. Copy quantity clear (total clear) (Function code: 15)

The copy quantity of each department is cleared.

After entering the function code "15", select all department clear or specified department clear.

If there is no registered department, the error code "15E" is displayed.

#### (1) All department total clear

- 1) Press "1" key.
- 2) Press the START key.

#### (2) Specified department clear

- 1) Press "0" key.
- 2) Select the department number with % key.
- 3) Press the START key.

# [10] TROUBLE CODE LIST

Classification	Function	Main code	Sub code	Trouble name	Remark
Electrical	Copier	H2	00	Thermistor open error	Thermistor is open
system error		НЗ	00	Fusing temperature abnormality (Abnormally high temperature detection)	Abnormally high fusing temperature
		H4	00	Fusing temperature abnormality (Abnormally low temperature detection)	Abnormally low fusing temperature
		CC		Media sensor error	Document detection error
		U2	04	EEPROM communication error	EEPROM abnormality
			11	Counter SAM error	EEPROM counter area SAM abnormality
			12	Adjustment value SAM error	EEPROM adjustment value memory area SAM abnormality
		F5	02	Copy lamp error	Copy lamp disconnection
	FAX	F6	00	FAX board communication trouble	
			10	FAX board trouble	
			80	FAX board communication trouble (Protocol)	
			81	FAX board communication trouble (Parity)	
			82	FAX board communication trouble (Overrun)	
			84	FAX board communication trouble (Framing)	
			88	FAX board communication trouble (Timeout)	
	Printer	F9	00	Printer board communication trouble	
			10	Printer board trouble	
			80	Printer board communication trouble (Protocol)	
			81	Printer board communication trouble (Parity)	
			82	Printer board communication trouble (Overrun)	
			84	Printer board communication trouble (Framing)	
			88	Printer board communication trouble (Timeout)	
	Electronic sort	E1	00	Electronic sort board communication trouble	
			10	Electronic sort board trouble	
			11	ASIC error	ASIC abnormality
			12	Image compression error	JBIG IC abnormality
			13	Flash ROM error	Program ROM abnormality
			14	RAM error	Work RAM abnormality
			15	Page memory error	Print buffer abnormality
			16	SIMM error	Compression storing memory abnormality
			17	Image rotating RAM error	Rotating RAM abnormality
			80	Electronic sort board communication trouble (Protocol)	
			81	Electronic sort board communication trouble (Parity)	
			82	Electronic sort board communication trouble (Overrun)	
			84	Electronic sort board communication trouble (Framing)	
			88	Electronic sort board communication trouble (Timeout)	

Classification	Function	Main code	Sub code	Trouble name	Remark
Electrical	Operation	U9	00	Operation board communication trouble	
system error			80	Operation board communication trouble (Protocol)	
			81	Operation board communication trouble (Parity)	
			82	Operation board communication trouble (Overrun)	
			84	Operation board communication trouble (Framing)	
			88	Operation board communication trouble (Timeout)	
	Zero cross	L8	01	Zero cross trouble	
Optical	CCD	E7	04	CCD white level trouble	CCD white level abnormality
system error			05	CCD black level trouble	CCD black level abnormality
			12	Shading trouble	White correction is not completed with the specified number of operations
	LSU	E7	03	LSU trouble	LSU abnormality
Mechanical	Mirror motor	U3	29	Mirror home position error	
system error		L1	00	Mirror feed trouble	
		L3	00	Mirror return trouble	
	Main motor	L4	01	Main motor lock	
	LSU	L6	10	Polygon motor trouble	
	Shifter	F1	06	Shifter motor trouble	
	Job separator	L4	10	Job separator motor trouble	Job separator function
Others	Operation	U95		Operation connection abnormality	Panel individual display caused by abnormal panel connection



# [11] MAINTENANCE

## 1. Maintenance table

X: Check (Clean, adjust, or replace when required.) ○: Clean ▲: Replace △: Adjust ☆: Lubricate

Unit name	P	art name	When calling or replacing the kit	150k
Transfer section		Charger unit	0	0
		Transfer paper guide	0	0
Optical section	Lamp unit	Reflector	0	0
		Mirror	0	0
	No. 2/3 mirror unit	Mirror	0	0
		Pulley	X	X
	CCD peripheral	Lens	0	0
	Glass	Table glass	0	0
		White plate	0	0
	Other	Drive wire	X	X
		Rail	X☆	X☆
		Document cover	0	0
		Document size sensor	0	0
LSU		Dust-proof glass	0	0
Paper feed section	Multi paper feed section	Takeup roller	0	0
		Paper feed roller	0	0
		Spring clutch	O☆	O☆
	Cassette section	Paper feed roller	0	0
		Spring clutch	O☆	O☆
Paper transport section		PS roller	0	0
		Transport (paper exit) rollers	0	0
		Spring clutch	O☆	O☆
Fusing section		Upper heat roller	0	<b>A</b>
		Pressure roller	0	0
		Pressure roller bearing	X	O <del></del>
		Upper separation pawl	X	0
		Lower separation pawl	X	0
Drive section		Gears	X☆	X☆
		Belts	×	0

# [12] DISASSEMBLY AND ASSEMBLY

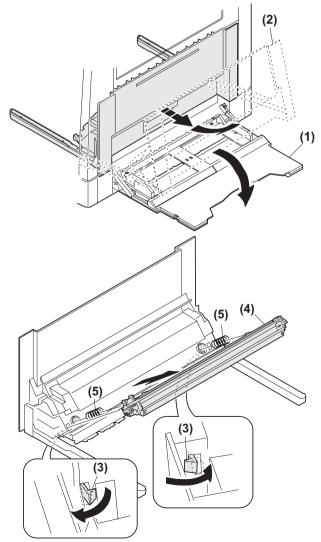
WARNING: Before performing the disassembly procedure, be sure to remove the power cord to prevent against an electric shock.

No.	Item	Page
1	High voltage section	12-1
2	Optical section	12-1
3	Fusing section	12-2
4	Paper exit section	12-4
5	MCU	12-6
6	Optical frame unit	12-6
7	LSU	12-6
8	Tray paper feed section/Paper transport section	12-7
9	Manual multi paper feed section	12-8
10	Power section	12-10
11	Developing section	12-11
12	Process section	12-12

## 1. High voltage section

No.	Content
Α	Transfer charger unit
В	Charger wire

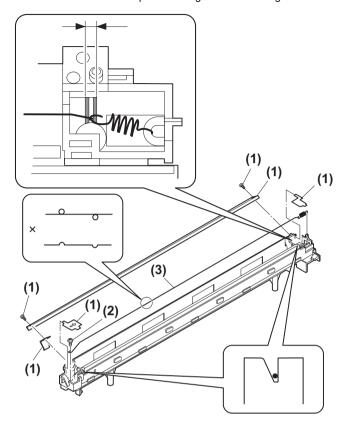
## A. Transfer charger unit



## B. Charger wire

Installation: The spring tip must be between two reference ribs.

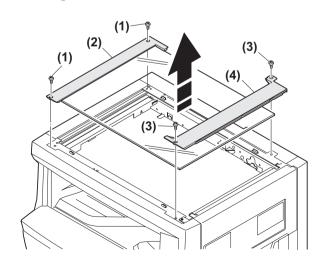
- The charger wire must be free from twist or bending.
- Be sure to put the charger wire in the V groove.



## 2. Optical section

No.	Content
Α	Table glass
В	Copy lamp unit
С	Copy lamp
D	Lens unit

## A. Table glass



## B. Copy lamp unit

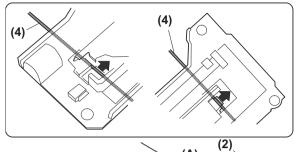
Disassembly: Be sure to put No. 2/3 mirror unit to the positioning

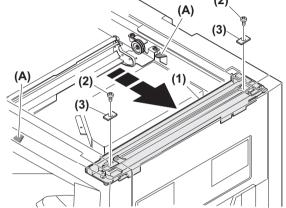
plate (A).

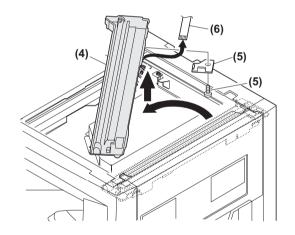
Assembly: Put the notched surface of wire holder (3) downward,

tighten temporarily, and install.

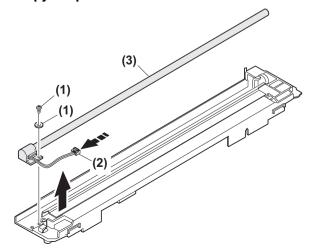
Adjustment: Main scanning direction distortion balance adjustment



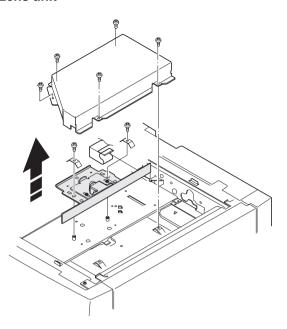




## C. Copy lamp



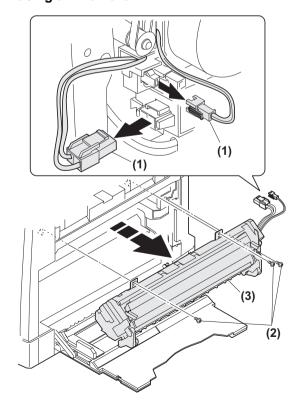
## D. Lens unit



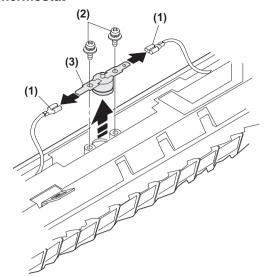
## 3. Fusing section

No.	Contents
Α	Fusing unit
В	Thermostat
С	Thermistor
D	Heater lamp
Е	Upper heat roller
F	Separation pawl
G	Lower heat roller

## A. Fusing unit removal

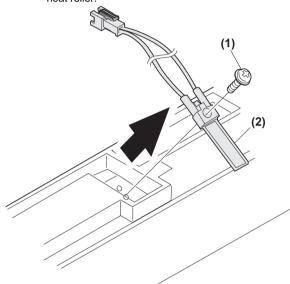


#### **B.** Thermostat



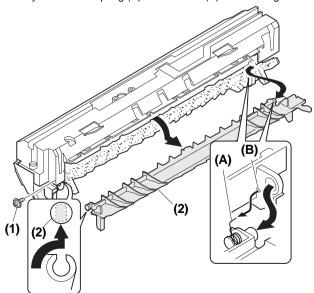
## C. Thermistor

Installation: Check that the thermistor is in contact with the upper heat roller.

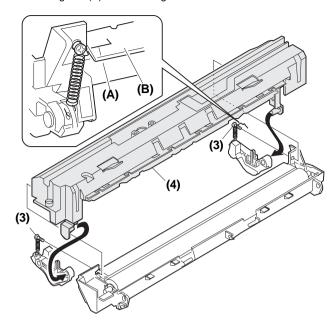


#### D. Heater lamp

Assembly: Insert the spring (A) into the hole (B) in the fusing frame.

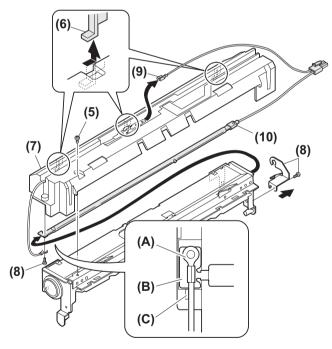


Assembly: Put the paper guide earth spring (A) under the paper guide (B) before fusing.



Disassembly: There are three pawls on the fusing cover. Remove the screws and slide the fusing cover to the right to remove.

The heater lamp is fixed on the fusing cover with a screw. Slide the fusing cover to the front and remove the screw, then remove the heater lamp.

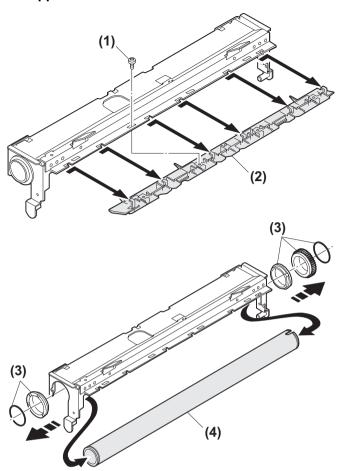


Assembly: Put the fusing harness (A) on the heater lamp (B) as shown in the figure and fix them together.

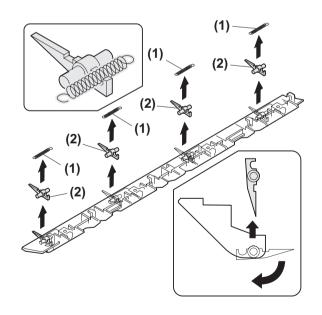
Place the fusing harness inside the rib (C).



## E. Upper heat roller

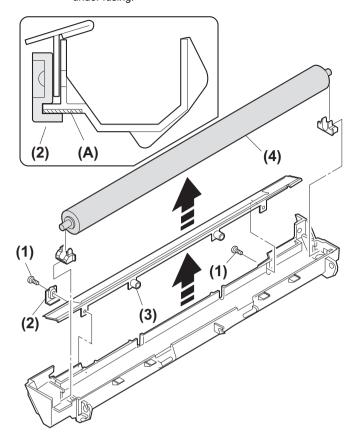


## F. Separation pawl



## G. Lower heat roller

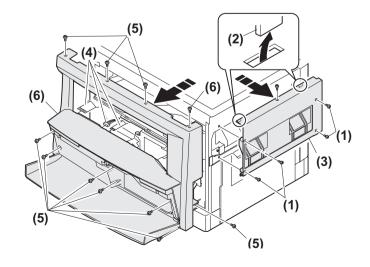
Assembly: When installing the paper guide (3) before fusing, tighten the paper guide fixing plate so that the paper guide fixing plate (2) is in contact with the frame bottom section (A) under fusing.



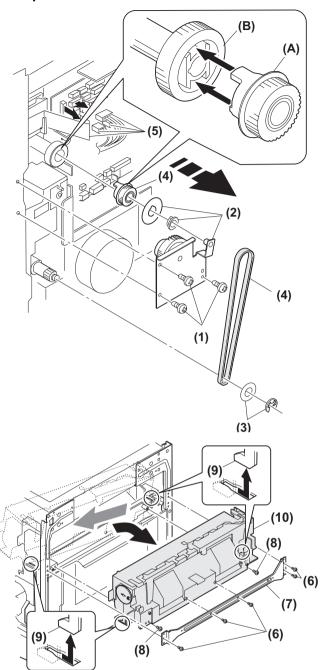
## 4. Paper exit section

No.	Content
Α	Front cabinet unit/Right cabinet unit
В	Paper exit unit
С	Transport roller
D	Paper exit roller

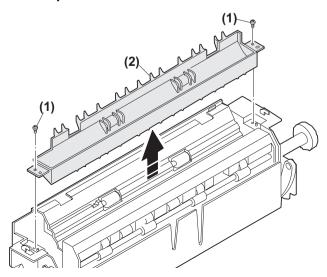
## A. Front cabinet unit, right cabinet disassembly

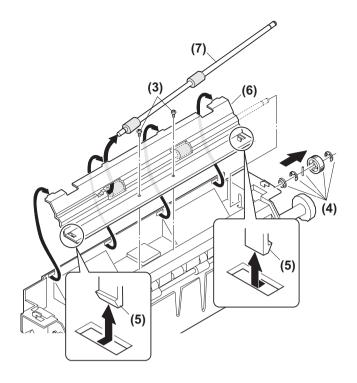


## B. Paper exit unit

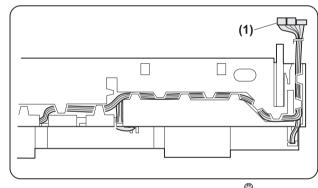


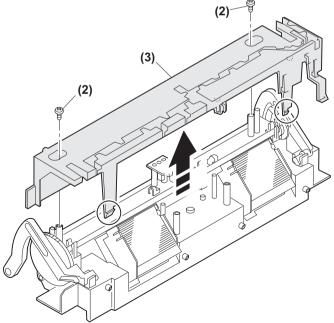
## C. Transport roller





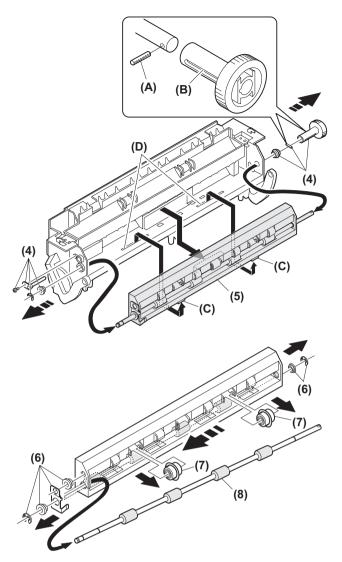
## D. Paper exit roller





Assembly: Insert the spring pin so that the waveform (A) of the spring pin faces in the longitudinal direction of the paper exit drive gear long hole (B).

Be sure to insert two ribs (C) into the groove (D).

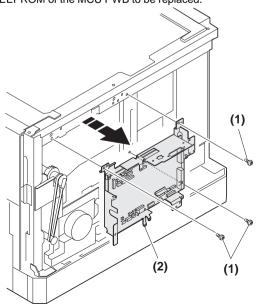


## 5. MCU

No.	Content
Α	MCU

## A. MCU disassembly

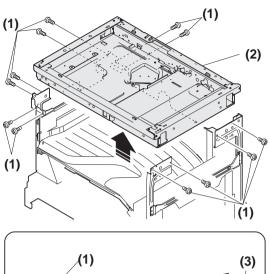
Note: When replacing the MCU PWB, be sure to replace the EEPROM of the MCU PWB to be replaced.

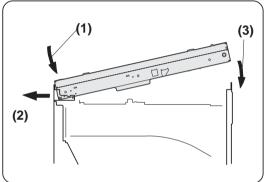


## 6. Optical frame unit

No.	Content
Α	Optical frame unit

## A. Optical frame unit



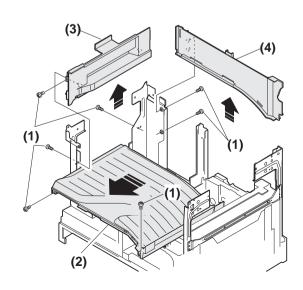


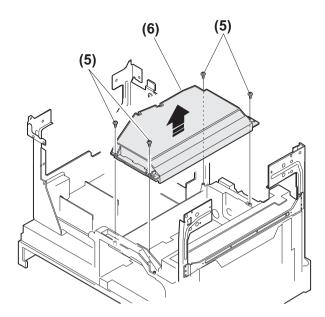
Installation: Install the optical unit in the sequence shown above.

## 7. LSU

No.	Content
Α	LSU unit

## A. LSU unit



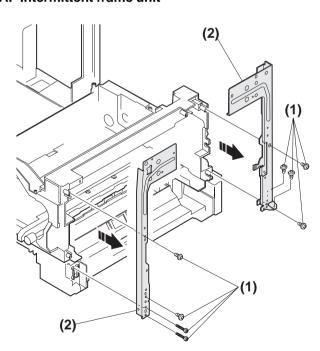


- Adjustment: Image lead edge position adjustment
  - Image left edge position adjustment
  - Paper off-center adjustment

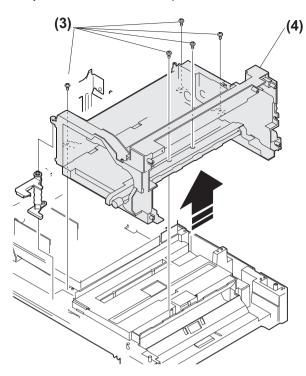
## 8. Tray paper feed section/Paper transport section

No.	Content
Α	Interface frame unit
В	Drive unit
С	Solenoid (paper feed solenoid, resist roller solenoid)
D	Resist roller clutch , Resist roller
Е	Paper feed clutch/Paper feed roller (Semi-circular roller)

## A. Intermittent frame unit

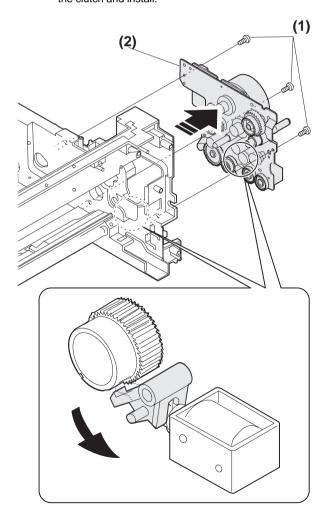


Assembly: Do not miss the door lock pawl.

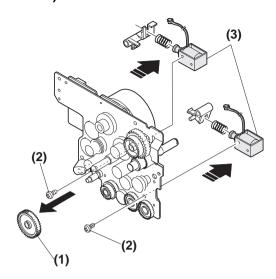


## B. Drive unit

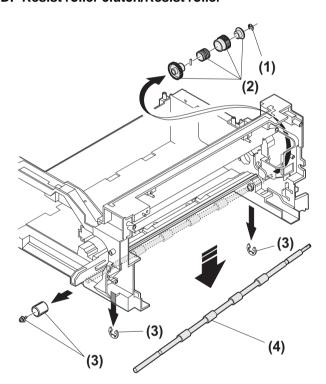
Assembly: Move down the clutch pawl as shown below, and avoid the clutch and install.



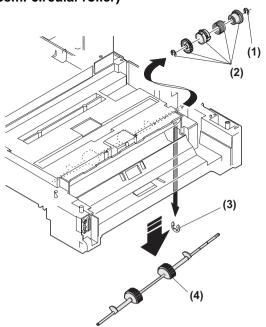
# C. Solenoid (paper feed solenoid, resist roller solenoid)



## D. Resist roller clutch/Resist roller



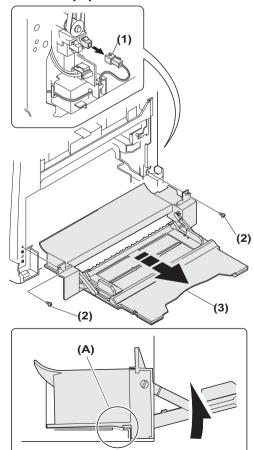
# E. Paper feed clutch/Paper feed roller (Semi-circular roller)



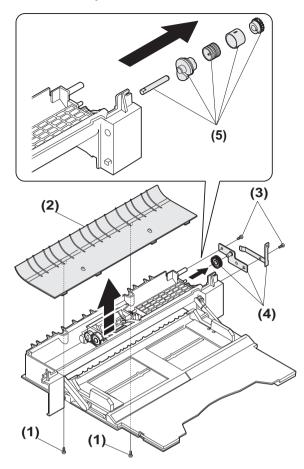
## 9. Manual multi paper feed section

No.	Content
Α	Manual multi paper feed section
В	Manual transport clutch
С	Manual paper feed clutch
D	Manual transport roller/Manual paper feed roller
Е	Multi feed solenoid

## A. Manual multi paper feed



## B. Manual transport clutch

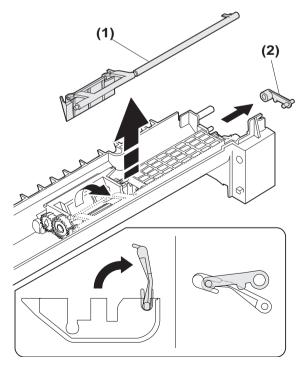


## C. Manual paper feed clutch

Disassembly: Set up the shutter arm (1) then remove it.

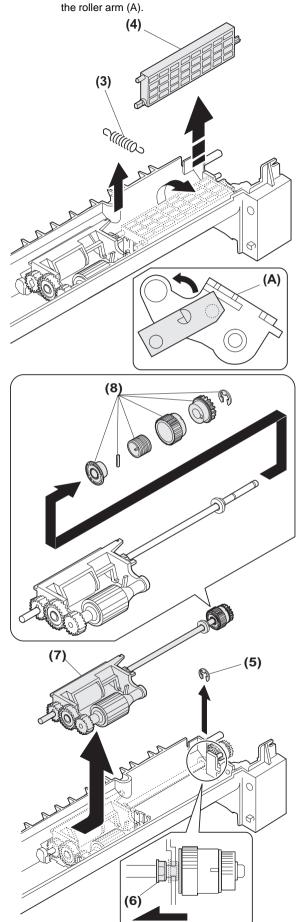
Assembly: Install so that the boss section of the fulcrum arm (2)

comes between ribs.



Disassembly: Set up the cam transmission arm (2), and remove it.

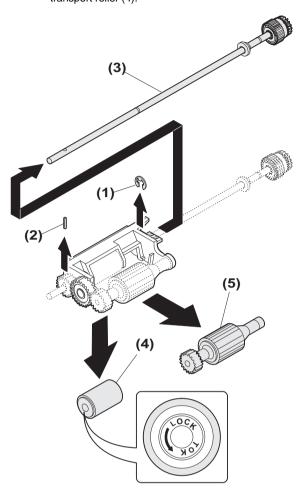
Assembly: Install so that the cam transmission arm (2) is under





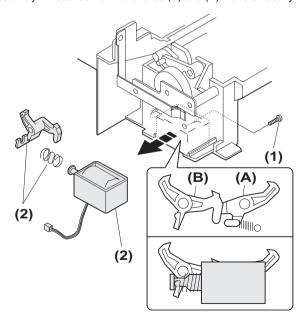
## D. Manual transport roller/Manual paper feed roller

Installation: Be careful of the installing direction of the manual transport roller (4).



## E. Multi feed solenoid

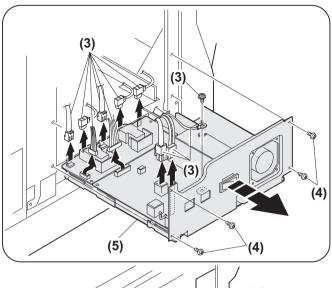
Assembly: Install so that the latches (A) and (B) move smoothly.

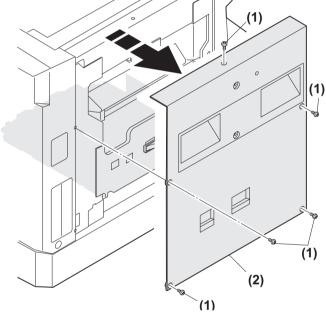


## 10. Power section

No.	Content
Α	Power unit

## A. Power unit

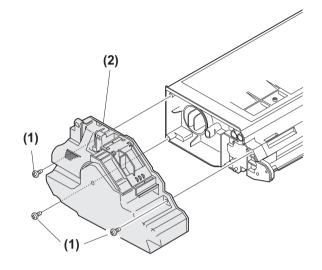




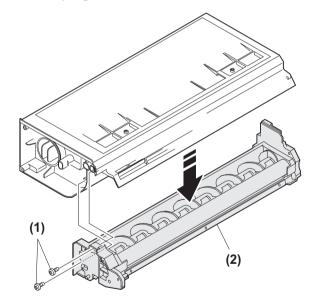
## 11. Developing section

No.	Contents
Α	Waste toner box
В	Developing box
С	Developing doctor
D	MG roller

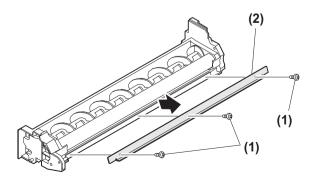
## A. Waste toner box



## B. Developing box

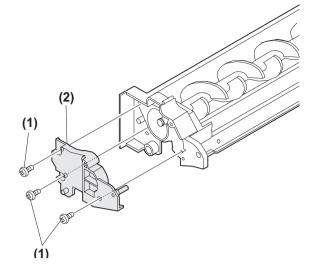


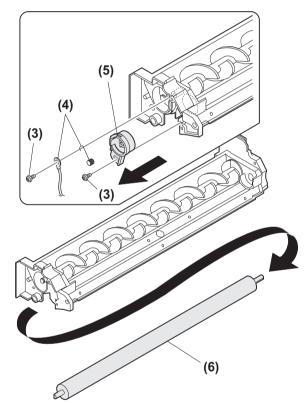
## C. Developing doctor



Adjustment: Developing doctor gap adjustment

## D. MG roller





Adjustment: MG roller main pole position adjustment

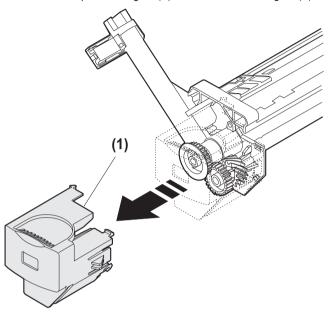


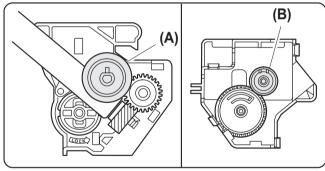
## 12. Process section

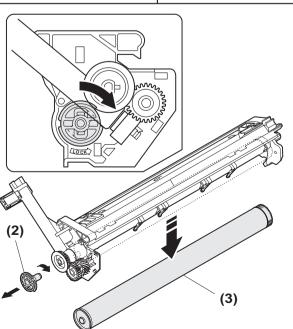
No.	Contents
Α	Drum unit
В	MC holder unit
С	Cleaning blade

#### A. Drum unit

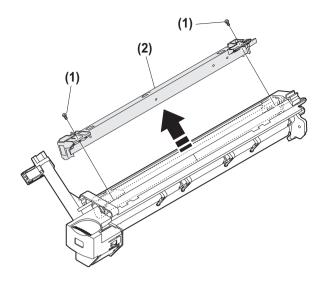
Assembly: When installing the drum cover (1), be sure to engage the transport screw gear (A) rib and the detection gear (B).



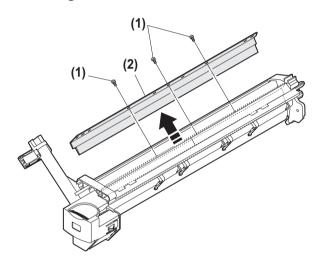




## B. MC holder unit



## C. Cleaning blade





# SHARP

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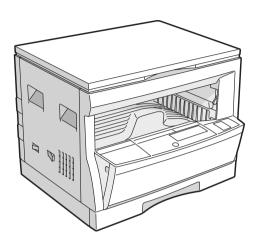
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> **SHARP CORPORATION Printing & Reprographic Systems Group Quality & Reliability Control Center** Yamatokoriyama, Nara 639-1186, Japan

1998 December Printed in Japan  $\mathbb{N}$ 

# SHARP PARTS GUIDE

CODE:00ZAR160//P1/



## **DIGITAL COPIER**

AR-S160(Japan only only AR-160(Except Japan)
MODEL AR-161(Except Japan)

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- 2 Operation panel section
- 3 Side door unit
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- 10 Main drive unit
- 11 Base plate unit 1
- |12| Base plate unit 2
- 13 Manual paper feeding multi unit
- 14 Delivery frame unit
- 15 TC case unit
- 16 250 sheets tray unit
- |17| Packing material & Accessories
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- 19 COPY-Operation PWB
- 20 Duplex/P-out sensor PWB
- 21 MHPS PWB
- 22 Tray sensor PWB
- 23 Manual paper feeding sensor PWB
- 24 PS sensor PWB
- 25 RCU PWB
- 26 Low voltage power supply unit
- 27 ERDH-Operation PWB
- 28 Delivery interface PWB
- 29 Dry heater PWB..Japan only
- |30| Shifter HP sensor PWB -- AR-161

notice.

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#### **DEFINITION**

The definition of each Rank is as follows and also noted in the list

- A: Parts necessary to be stocked as High usage parts.
- B: Parts necessary to be stocked as Standard usage parts.
- C: Low usage parts.
- D: Parts necessary for refurbish.
- E : Unit parts recommended to be stocked for efficient after sales service.
  - Please note that the lead time for the said parts may be longer than normal parts.
- S: Consumable parts.

Please note that the following parts used in Copier under the same description are classified into A or B Rank depending upon the place used.

Example: Gear made of Metal, Sprocket, Bearing, Belt made of Rubber, Spring clutch mechanism.

A Rank: The parts which may be with the revolution or loading.

B Rank: Parts similar to A Rank parts, but are not included in Rank A.

#### $\Lambda$

Because parts marked with "\textit{\ti

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- Other than this Parts Guide, please refer to documents Service Manual (including Circuit Diagram) of this model.
- O Please use the 13 digit code described in the right hand corner of front cover of the document, when you pleace an order.
- O For U.S. only-Use order codes provided in advertising literature. Do not order from parts department.

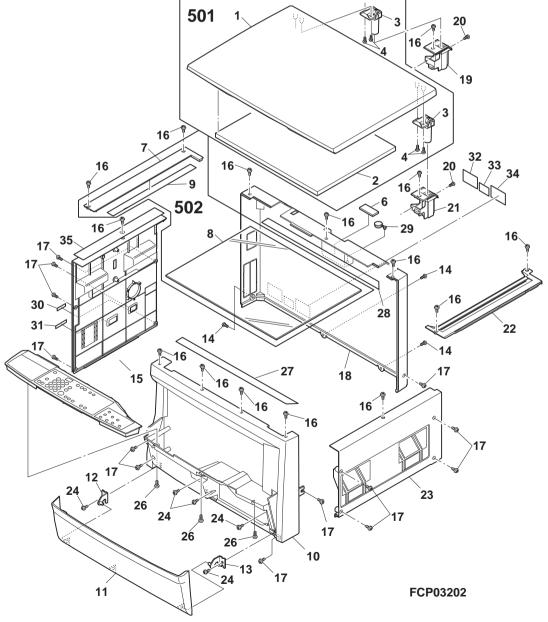
## 1 Exteriors

NO.	PARTS CODE	PRICE Ex.	RANK Ja.	NEW MARK	PART RANK	DESCRIPTION
1	GCŌVH0010QSZZ	BE	GN	N	D	OC cover
2	PSHEZ0058QSZZ	AY	FQ	N	С	OC sheet
3	CHNG-0007QS01	AM	EG	N	C	OC hinge
4	XEBSE40P10000	AA	DD		С	Screw (4×10)
6	GFTA-0002QSZZ	AD	DJ	N	D	SPF connector cover
	CF i X-0008QS01	AR	EQ	N	С	Glass fixing plate (Japan only)
7	CF i X-0008QS02	AQ	EQ	N	С	Glass fixing plate (Except Japan, Europe)
	CF i X-0008QS03	AR	EQ	N	С	Glass fixing plate (For Europe)
8	PGLSP0003QSZZ	BA	FX	N	В	Table glass
9	PSHEZ0059QSZZ	AF	DS	N	С	Sheet
	CCAB-0012QS01	BE	GN	N	D	Front exterior (Japan only) (AR-S160)
	CCAB-0012QS02	BC	GJ	N	D	Front exterior (Except Japan, Europe) (AR-160)
10	CCAB-0012QS03	BE	GN	N	D	Front exterior (For Europe) (AR-160)
	CCAB-0012QS05	BC	GJ	N	D	Front exterior (Except Japan, Europe) (AR-161)
	CCAB-0012QS06	BE	GN	N	D	Front exterior (For Europe) (AR-161)
1 44	GFTA-0001QSZZ	AW	FG	N	D	Front exterior cover (Except Europe)
11	GFTA-0001QSZA	AX	FG	N	D	Front exterior cover (For Europe)
12	CARMP0010QS01	AD	DJ	N	С	Hinge arm L
13	CARMP0011QS01	AD	DJ	N	С	Hinge arm R
14	XEBSE40P10000	AA	DD		С	Screw (4×10)
15	GCAB-0014QSZZ	AY	FQ	N	D	Left exterior (Except Europe)
13	GCAB-0014QSZA	BA	FX	N	D	Left exterior (For Europe)
16	XBBSE30P06000	AA	DD		С	Screw (3×6)
17	XHBSE30P08000	AA	DD		С	Screw (3×8)
18	GCAB-0013QSZZ	BC	GD	N	D	Rear exterior (Except Europe)
18	GCAB-0013QSZA	BE	GN	N	D	Rear exterior (For Europe)
	PGiDM0054QSZZ	AG	DX	N	С	Hinge guide L
20	XHBSD30P06000	AA	DD		С	Screw (3×6)
21	PGiDM0055QSZZ	AG	DX	N	С	Hinge guide R
22	GCŌVH0011QSZZ	AP	EQ	N	D	OC glass fixing cover (Except Europe)

1 Exteriors

		PRICE	RANK	NEW	PART	
NO.	PARTS CODE	Ex.	Ja.		RANK	DESCRIPTION
22	GCŌVH0011QSZA	AQ	EQ	N	D	OC glass fixing cover (For Europe)
23	GCAB-0015QSZZ	AV	FG	N	D	Right exterior (Except Europe)
_	GCAB-0015QSZA	AX	FQ	N	D	Right exterior (For Europe)
	XEBSE40P10000	AA	DD		С	Screw (4×10)
		AA	DD		С	Screw (3×8)
27	PSHEZ0088QSZZ	AF	DS	N	С	Table glass sheet F
	PSHEZ0089QSZZ	AF	DS	Ν	С	Table glass sheet R
	PCAPH0011QSZZ	AC	DJ	N	С	SC cap
30	TLABH0103QSZZ	AE	DS	N	С	Warm heater label (Japan only)
31	TLABH0104QSZZ	AE	DS	N	С	Power supply label (Japan only)
32	TCAUA0770FCZZ	AB	DD		С	Service caution label (Except Japan)
33	TLABH0264GCZZ	AC	DJ		С	Service man label (For Europe)
34	TLABZ0058QSZZ	AD	DJ		С	Class 1 label (200V series)
35	TLABH0107QSZZ	AG	DX	N	С	Operation instruction label (Japan only)
33	TLABH0108QSZZ	AG	DX	N	С	Operation instruction label (Except Japan)
501	CCŌVH0010QS51	BM	HV	N	Е	OC cover unit
	CF i X-0008QS51	BF	GN	N	Е	Table unit (Japan only)
502	CF i X-0008QS52	BF	GN	N	Е	Table unit (Except Japan, Europe)
	CF i X-0008QS53	BC	GJ	N	Е	Table unit (For Europe)

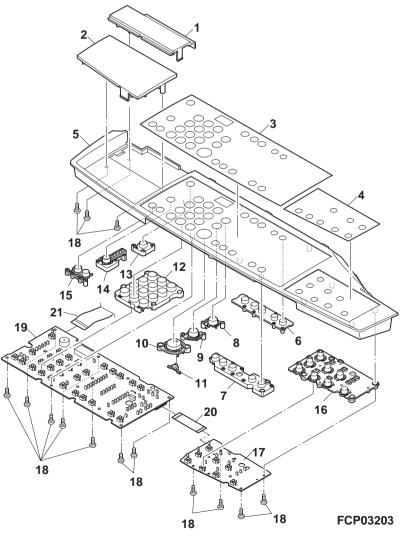
1 Exteriors



# 2 Operation panel section

	speration paner	000.				
NO.	PARTS CODE					DESCRIPTION
INO.		Ex.	Ja.	MARK	RANK	ANK
1	GCŌVH0015QSZZ	AG	DX	N	D	LCD dummy cover
2	GCŌVH0016QSZZ	AH	DX	N	D	FAX dummy cover
	HPNLH0004QSZZ	AV	FG	N	D	Main Dec. panel (Japan only)
	HPNLH0004QSZ1	AV	FG	Ν	D	Main Dec. panel (USA)
3	HPNLH0004QSZ2	AV	FG	N	D	Main Dec. panel (CANADA)
3	HPNLH0004QSZ3	AV	FG	N	D	Main Dec. panel (For Europe ··
	HPNLH0004QSZ4	AV	FG	N	D	Main Dec. panel (U.Kingdom)
	HPNLH0004QSZ5	AV	FG	N	D	Main Dec. panel (Australia)
	HPNLH0006QSZZ	AM	EG	N	D	Dec. panel (Japan only)
4	HPNLH0006QSZ1	AM	EG	N	D	Dec. panel (USA,U.Kingdom)
	HPNLH0006QSZ2	AM	EG	Ν	D	Dec. panel (Other countries)
5	GCAB-0017QSZZ	AV	FG	N	D	Operation panel exterior (Except Europe)
Ů	GCAB-0017QSZA	AW	FG	N	D	Operation panel exterior (For Europe)
	JBTN-0018QSZZ	AE	DJ	N	С	Function key
	JBTN-0029QSZZ	AE	DS	N	С	Select key
	CBTN-0022QS01	AF	DS	N	С	CA key
	CBTN-0021QS01	AF	DS	N	С	Clear key
	CBTN-0019QS01	AG	DX	N	С	Copy key
	JBTN-0020QSZZ	AC	DJ	N	С	Copy key (LIGHT IND)
	CBTN-0016QS01	AN	EG	N	С	Ten key
	JBTN-0026QSZZ	AE	DJ	N	С	Interrupt key
	JBTN-0030QSZZ	AD	DJ	N	С	Mode select key
	JBTN-0027QSZZ	AD	DJ	N	С	Density select key
	JBTN-0023QSZZ	AG	DX	N	С	Special function key
	CPWBF0025QS51	AZ	FQ	N	Е	ERDH-operation PWB
18	XEBSD30P08000	AA	DD		С	Screw (3×8)
19	CPWBN0024QS51	BR	LP	N	Е	COPY-operation PWB (Japan,Australia)
	CPWBN0024QS52	BQ	LP	N	Е	COPY-operation PWB (Other countries)
	DHAi-0116QSZZ	AC	DJ	N	С	Panel ERDH harness
21	DHAi-0115QSZZ	AF	DS	N	С	Operation panel harness

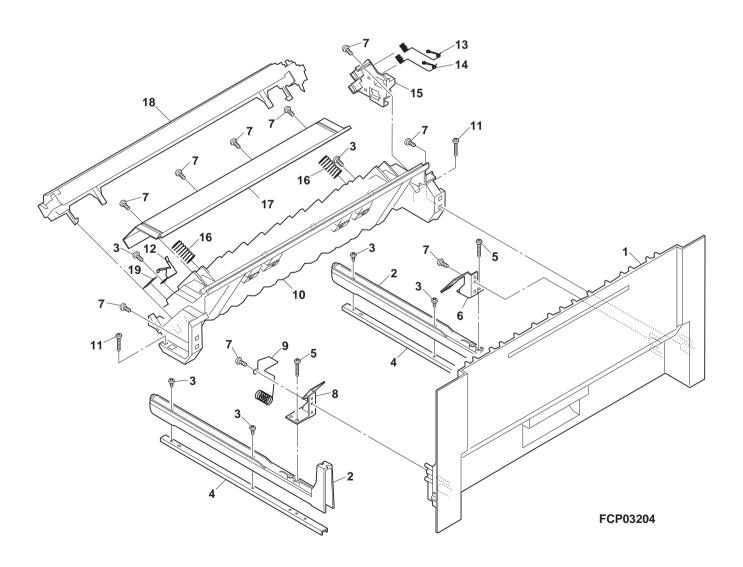
# 2 Operation panel section



# 3 Side door unit

NO.	PARTS CODE	PRICE RANK		NEW	PART	DESCRIPTION
INO.		Ex.	Ja.	MARK	RANK	DESCRIPTION
4	GDŌR-0001QSZZ	AW	FG	N	D	Right door (Except Europe)
'	GDŌR-0001QSZA	AW	FG	N	D	Right door (For Europe)
2	LRALP0004QSZZ	AL	EB	N	С	Right door rail
3	XHBSD30P10000	AA	DD		С	Screw (3×10)
4	LPLTM0092QSZZ	AF	DS	N	С	Rail reinforce plate
5		AA	DD		С	Screw (3×14)
	LPLTM0091QSZZ	AE	DS	N	С	Inner reinforce plate R
	XEBSD30P10000	AA	DD		С	Screw (3×10)
8	LPLTM0090QSZZ	AE	DS	N	С	Inner reinforce plate F
9	MSPRC0085QSZZ	AE	DJ	N	С	TC case GND spring
10	LFRM-0016QSZZ	AT	EZ	N	С	Right door inner
11	XHBSD30P16000	AA	DD		С	Screw (3×16)
12	LPLTM0068QSZZ	AE	DJ	N	С	TC case terminal plate
13	MSPRC0084QSZZ	AD	DJ	N	С	BC interface electrode spring
	MSPRC0083QSZZ	AD	DJ	N	С	TC interface electrode spring
	LHLDZ0033QSZZ	AF	DS	N	С	TC terminal interfase holder
	MSPRC0082QSZZ	AC	DJ	N	С	Pressure spring
17	PGiDH0041QSZZ	AL	EB	N	С	BC rear paper guide
18	CHLDZ0030QS51	BA	FX	N	E	TC unit
19	TCAUH0819FCZZ	AA	DD		С	HT caution label (Japan only)

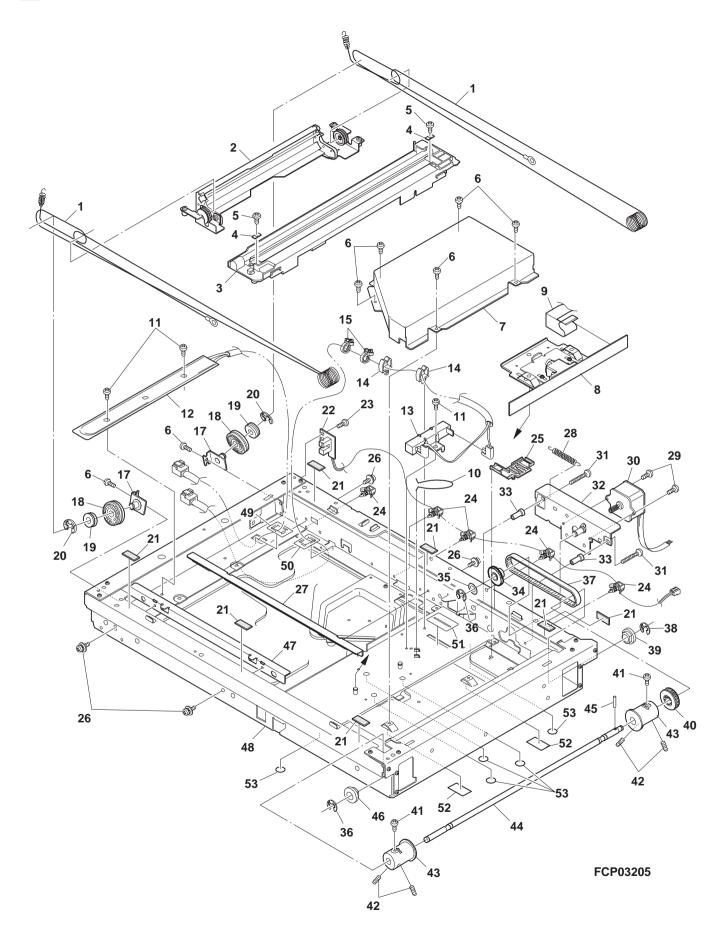
# 3 Side door unit



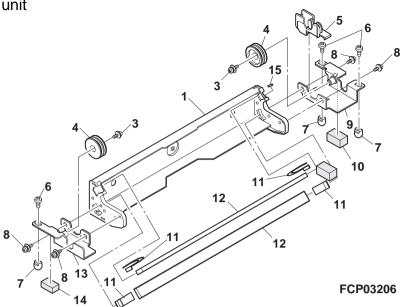
#### 4 Optical unit

L	4 (	Optical unit					
	NO.	PARTS CODE	PRICE	RANK	NEW	PART	DESCRIPTION
			Ex.	Ja.		RANK	
ŀ		PWiR-0005QSZZ	AS	EQ	N	С	MB wire
_		CMiR-0008QS31 CREFL0004QS31	BB BQ	GD LP	N N	E B	2nd,3rd mirror unit Copy lamp unit
Δ		LHLDZ1239FCZZ	AE	DS	IN	С	Wire holder
F		XBPSD40P08K00	AA	DD		C	Screw (4×8K)
ľ		XHBSD30P06000	AA	DD		C	Screw (3×6)
		PCASZ0008QSZZ	AM	EG	Ν	С	Dark box
		CLNS-0003QS51	BV	NU	N	Е	Lens unit
		DHAi-0120QSZZ	AG	DS	N	С	CCD harness
-		LFiX-0005QSZZ XHBSD30P06000	AC	DJ		С	Harness fixing plate
^		RHET-0003QSZZ	AA AP	DD EQ	N	C B	Screw (3×6)(Japan only)  Dry heater (mirror) (Japan only)
Δ		CR-WZ0003QS22	AZ	FQ	N	В	Dry heater (lens) (Japan only)
		LHLDW1009ACZZ	AA	DD	.,	C	Cable holder (Japan only)
	15	LBNDJ0013FCZ1	AA	DJ		С	Wire band (Japan only)
		CPLTM0026QS01	AH	DX		С	Pulley fixing plate F
		NPLYZ0005QSZZ	AG	DX	N	С	Pulley
L		NPLYZ0006QSZZ XRESP40-05000	AD	DJ	N	С	L pulley
ŀ		PCUSG0190FCZ1	AA AB	DD DJ		C	E type ring Table glass cushion
-		CPWBF1177FC63	AP	EQ	N	E	MHPS PWB
ŀ		XBBSD30P08000	AA	DD	.,	С	Screw (3×8)
f		LBNDJ0013FCZ1	AA	DJ		С	Wire band
		LHLDZ0043QSZZ	AE	DJ	N	С	CL lead holder
Į		LX-BZ0004QSZZ	AB	DD		С	Screw (3×63)(Red)
		LRALM0007QSZZ	AG	DX	N	С	MB-B rail R
- }		MSPRC0040QSZZ XBPSD30P05K00	AB AA	DJ DD		C	MB drive spring Screw (3×5K)
-		RMŌTP0021QSZZ	BB	GD	N	В	Mirror motor
ŀ		XBPSD40P16KS0	AA	DD	IN	С	Screw (4×16KS)
ŀ		CPLTM0084QS01	AL	EB	N	C	Mirror motor fixing plate
		PGUMS0002QSZZ	AL	EB	N	С	Protection rubber
		NGERH0027QSZZ	AH	DX		С	Mirror motor idle gear
		LX-WZ0119FCZZ	AA	DD		С	Washer
-		XRESP70-08000 NBLTT0002QSZZ	AA	DD		С	E type ring Window drive helt
		XRESP50-06000	AH AA	DX DD		B C	Winder drive belt E type ring
ŀ		NBRGC0387FCZ1	AC	DJ		С	Bearing
		NPLYZ0004QSZZ	AG	DX		C	Winder drive shaft pulley
		LX-BZ0324FCZZ	AA	DD		С	Screw (3×4)
		LX-BZ0049FCZZ	AB	DD		С	Screw (4×6)
-		NPLYZ0003QSZZ	AM	EG		С	Winder pulley
H		NSFTZ0028QSZZ XPSSJ30-12000	AM AB	EG DD	N	C	Winder drive shaft Spring pin (φ3-12)
ŀ		NBRGC0133FCZ1	AC	DJ		C	PF bearing (M8)
-		LRALM0006QSZZ	AG	DS	N	C	MB-B rail F
	48	CDA i U0012QS01	BL	HL	Ν	С	Optical base plate
		PSHEP0090QSZZ	AD	DJ	N	С	Optical edge protect sheet A (Japan only)
		PSHEP0091QSZZ	AD	DJ	N	С	Optical edge protect sheet B (Japan only)
-		PSHEP0085QSZZ PSHEZ0108QSZZ	AC	DJ	N	C	Optical edge protect sheet D
ŀ		PSHEZ0108QSZZ PSHEZ0109QSZZ	AC AC	DJ DJ	N N	C	Optical base plate bottom myler A Optical base plate bottom myler B
ŀ	JJ	. 5112201030022	AC	טט	IN	U	Opioci sace piate settem myter s
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### 4 Optical unit



### 5 2nd,3rd mirror unit



## 5 2nd,3rd mirror unit

NO.	PARTS CODE	PRICE Ex.	RANK Ja.		PART RANK	DESCRIPTION
1	LHLDZ0044QSZZ	AP	EQ.	N	С	2nd,3rd mirror holder
3	XBPSD40P06KS0	AA	DD		С	Screw (4×6KS)
4	NPLYZ0007QSZZ	AG	DX		С	W pulley
5	LHLDZ0013QSZZ	AD	DJ		С	CL guide holder
6	XEBSD40P06000	AA	DD		С	Screw (4×6)
7	CSLi-0103FC31	AF	DS		Е	Slider unit (4pcs/set)
8	LX-BZ0335FCZZ	AA	DD		С	Screw (4×6)(Red)
9	CPLTM0029QS01	AH	DX		С	Pulley fixing plate R
10	PCUSS0009QSZZ	AA	DJ		С	MB-B cushion R
11	LFiX-0284FCZZ	AC	DD		С	2nd,3rd mirror fixing plate F
	PMiR-0008QSZZ	AP	EQ	N	В	2nd,3rd mirror
	CPLTM0028QS01	AH	DX		С	Pulley fixing plate F
14	PCUSS0201FCZZ	AA	DD		С	MB-B cushion
15	PSPAZ0011QSZZ	AD	DJ	N	С	Mirror spacer
	(Unit)					
901	CM i R-0008QS31	BB	GD	N	E	2nd,3rd mirror unit

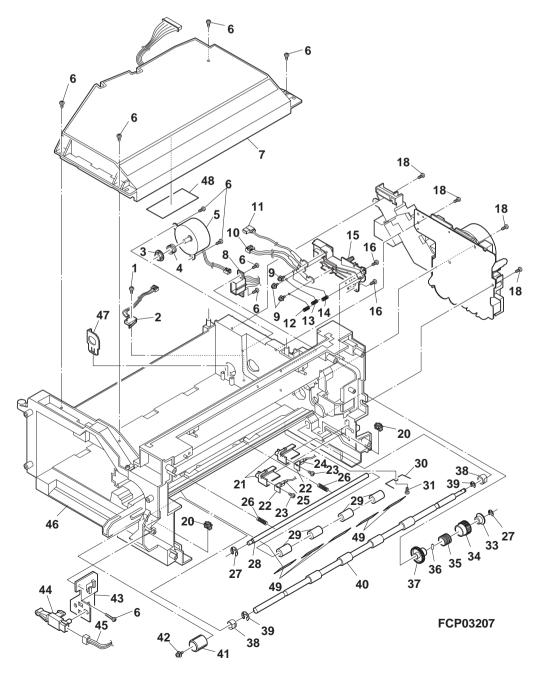
### 6 Middle frame unit

NO.	PARTS CODE	PRICE	RANK		PART	DESCRIPTION
140.		Ex.	Ja.	MARK	RANK	DESORTI TION
1	X2. 0020. 12000	AA	DD		С	Screw (2.3×12)
2	CSW-M0007QS51	AQ	EQ	N	Е	Inter lock switch unit
	NCPL-0002QSZZ	AC	DJ		С	Hopper cupring
	MSPRC0024QSZZ	AA	DJ		С	Hopper spring
5	RMŌTD0016QSZZ	AY	FQ	N	В	Toner motor
6		AA	DD		С	Screw (3×10)
7	DUNTK0041QSZZ	AU	EZ	N	E	LSU unit (100V series)
,	DUNTK0041QS11	CC	TZ	N	E	LSU unit (200V series)
8	DHA i - 0 1 1 2 QSZZ	AP	EQ	N	С	DEV harness
9		AA	DD		С	Screw (3×6ES)
	CHA i -0109QS51	AN	EG	N	Е	GB-MCFB harness unit
	CHA i -0107QS51	AK	DX	N	Е	MC harness unit
-	MSPRD0104QSZZ	AC	DJ	N	С	HV terminal spring (case)
13	MSPRD0103QSZZ	AC	DJ	N	С	HV terminal spring (grid)
14	MSPRD0102QSZZ	AC	DJ	N	С	HV terminal spring
15	LHLDZ0038QSZZ	AH	DX	N	С	High voltage terminal holder
16	XEBSD30P08000	AA	DD		С	Screw (3×8)
18	XEBSD30P10000	AA	DD		С	Screw (3×10)
20	LSTPP0005QSZZ	AC	DJ	N	С	SD stopper
21	LHLDZ0039QSZZ	AE	DJ	N	С	High voltage terminal holder TC
22	LPLTM0067QSZZ	AC	DJ	N	С	TC terminal plate
23		AA	DD		С	Screw (3×6)
24	DHAi-0106QSZZ	AL	EB	N	С	BC harness
25	DHAi-0108QSZZ	AK	DX	N	С	TC harness
26	MSPRC0105QSZZ	AB	DJ	N	С	PS pressure spring
27	XRESP40-06000	AA	DD		С	E type ring
28	NSFTZ0021QSZZ	AK	EB	N	С	PS roller shaft
29	NKŌM-0001QSZZ	AD	DJ	N	С	PS collar (\phi12)
30	MSPRD0139QSZZ	AB	DJ	N	С	PS earth spring
31	XEBSD30P06000	AA	DD		С	Screw (3×6)

### 6 Middle frame unit

NO.	PARTS CODE	PRICE	RANK	NEW	PART	DESCRIPTION
INO.	PARTS CODE	Ex.	Ja.	MARK	RANK	DESCRIPTION
	LBŌSZ1508FCZZ	AG	DX		С	Cam boss A2
34	PPiPP0174FCZZ	AC	DJ		С	Pipe C
	MSPRC0106QSZZ	AF	DS	N	С	PS clutch spring
	XPSSJ20-07000	AA	DD		С	Spring pin (\phi2-7)
	NGERH0062QSZZ	AK	DX	N	С	Clutch gear (32T)
	NBRGC0047FCZZ	AD	DJ		С	Bearing E
	XRESP60-08000	AA	DD		С	E type ring
	NRŌLP0032QSZZ	AT	ΕZ	N	С	PS trnsport roller
	JKNBZ0003QSZZ	AD	DJ	N	С	PS knob
	XBPSD30P10KS0	AB	DD		С	Screw (3×10KS)
	LPLTM0070QSZZ	AD	DJ	N	С	Process detect SW fixing plate
	QSW-B0003QSZZ	AF	DS		В	Tray detect switch
	DHAi-0090QSZZ	AF	DS	N	С	Drum initial SW harness
46	LFRM-0024QSZZ	BC	GD	N	С	Middle frame
47	LPiNS0301FCZZ	AD	DJ		С	DV guide pin
	TCAUH0007QSZZ	AD	DJ		С	Laser caution label (200V series)
49	PSHEZ0056QSZZ	AC	DJ	N	С	PS rear guide sheet
	_					
	_					
	_					

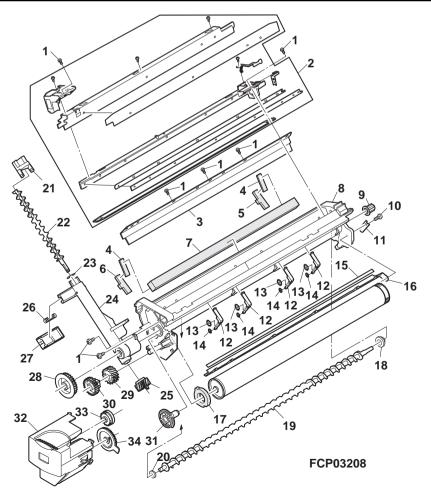
## 6 Middle frame unit



## 7 Process unit

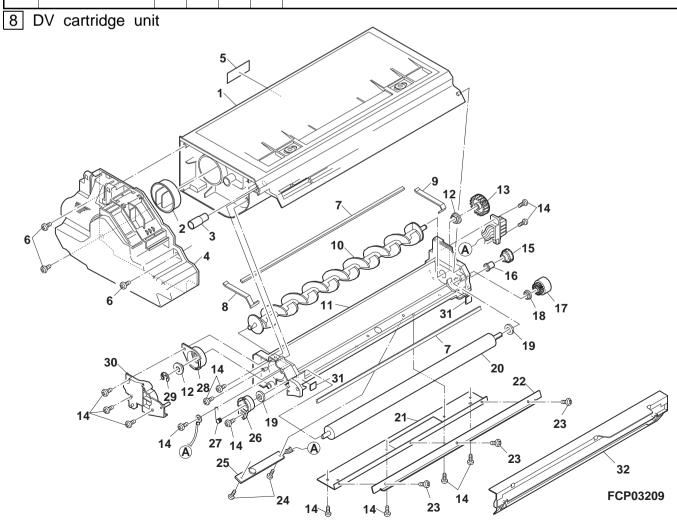
<u> </u>	100000 41110	DDICE	RANK	A.I=\A.	DADT	
NO.	PARTS CODE	Ex.		NEW	PART RANK	DESCRIPTION
	XEBSD30P10000		Ja. DD	IVIAIN		Coroux (2):40)
		AA		N.	С	Screw (3x10)
	CHLDZ0035QS51	BH	GX	N	E	MC holder unit
	UCLEZ0009QSZZ	AV	FG	N	С	Cleaning blade
	PMLT-0015QSZZ	AA	DJ		С	Toner shield cushion Seal R
	PSEL-0022QSZ1	AF	DS		С	Seal F
	PSEL-0021QSZ1	AF	DS		С	
	PMLT-0023QSZZ CFRM-0021QS01	AE	DJ	N	С	CL blade cushion
		AQ	EQ	N	С	Process frame
	NCPL-0003QSZZ	AC	DJ		С	Screw cupring
	XBBSD30P06000	AA	DD		С	Screw (3×6)
	LPLTM0101QSZZ	AC	DJ	N	С	Sub blade earth plate
	LHLDZ0045QSZZ	AD	DJ	N	С	Starling holder
	LX-WZ0329FCZZ	AB	DD		С	Washer
	LX-RZ0001QSZZ	AB	DD	N	С	Starling (\$\phi\$)
	PTPE-0006QSZZ	AC	DJ	N	С	Sub blade tape
	UCLEZ0010QSZZ	AR	EQ	N	С	Sub blade
	PMLT-0017QSZZ	AC	DJ		С	Flange cushion
	NBRGP0299FCZZ	AC	DJ		С	CL bearing (M5)
	NSFTZ0020QSZZ	AL	EB	N	С	Transport screw
	PMLT-0018QSZ1	AC	DJ		С	Transport screw cushion
	PCAPH0009QSZZ	AC	DJ	N	С	Toner pipe cap
	NSFTZ0019QSZZ	AE	DJ	N	С	Transport pipe screw
	PSPAZ0696FCZZ	AC	DJ		С	P cap spacer
	PPiPP0005QSZZ	AM	EG	N	С	Toner pipe
	NGERH0039QSZZ	AE	DS		С	Transport pipe gear (14T)
	MSPRC0045QSZZ	AA	DJ		С	Toner pipe spring
	PSHT-0004QSZZ	AC	DJ		С	Toner pipe shutter
	NGERH0036QSZZ	AC	DJ		С	Transport screw gear (30T)
	NGERH0038QSZZ	AC	DJ		С	Transport pipe gear (15T)
30	NGERH0037QSZZ	AC	DJ		С	Idle gear (26T)
24	LFiX-0007QSZ1	AE	DJ	N	С	Drum fixing plate B (USA,CANADA)
31	LFiX-0007QSZZ	AE	DJ	N	С	Drum fixing plate A (Other countries)
	PCŌVP0018QSZZ	AG	DS		С	Drum cover
33	NGERH0035QSZ1	AC	DJ	N	С	Detector gear (25T)
34	NGERH0034QSZ1	AC	DJ	N	С	Detector gear (50T)

#### 7 Process unit



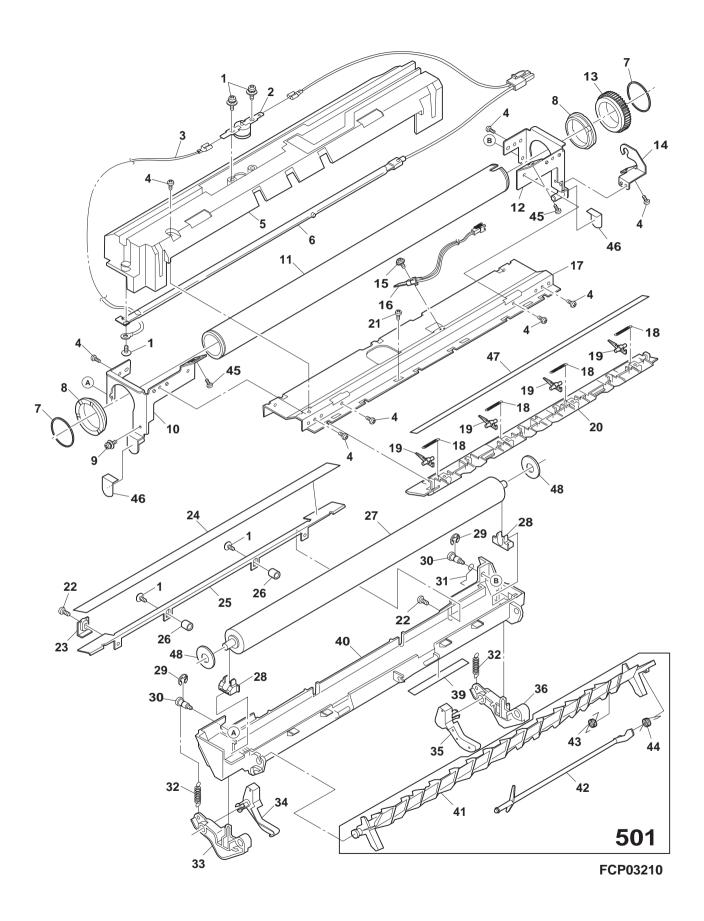
## 8 DV cartridge unit

NO	DARTS CODE	PRICE	RANK	NEW	PART	DESCRIPTION
NO.	PARTS CODE	Ex.	Ja.	MARK	RANK	DESCRIPTION
4	CBOX-0002YS54	BF	GN	N	Е	Toner box unit A (USA,CANADA)
1	CBOX-0002YS52	BE	GN	N	Е	Toner box unit B (Other countries)
2	PCAPH0005YSZZ	AD	DJ	N	С	Toner cap
3	PCAPH0004YSZZ	AC	DJ	N	С	Cap D
4	CBŌX-0003YS52	AZ	FQ	N	E	Waste toner box unit
	TLABZ1721FCZZ	AA	DD		С	DV CA label
	XEBSD30P10000	AA	DD		С	Screw (3×10)
	PMLT-0002YSZZ	AC	DJ	N	С	DV-TH cushion
	PMLT-0005YSZZ	AB	DJ	N	С	DV side cushion F
	PMLT-0006YSZZ	AB	DJ	N	С	DV side cushion R
	NRŌLM0001YSZZ	AP	EQ	N	С	MX roller
	PBŌX-0001YSZZ	AN	EQ	N	D	DV box
	NBRGC0008YSZZ	AH	DX	N	С	DV bearing
	NGERH0002YSZZ	AD	DJ	N	С	DV gear (28T)
	XEBSF30P08000	AA	DD		С	Screw (3×8)
	NGERH0001YSZZ	AD	DJ	N	С	DV idle gear (20T)
	PCAPH0001YSZZ	AD	DJ	N	С	DV idle cap
	NGERH0028QSZZ	AD	DJ		С	DV gear (18T)
	NBRGC0387FCZ1	AC	DJ		С	Bearing
	PMLT-0686FCZZ	AA	DD		С	MG cushion
	NRŌLM0002YSZZ	BA	FX	N	С	MG roller
-	LPLTM0002YSZZ	AS	EQ	N	С	Doctor reinforce plate
	LPLTM0001YSZZ	AN	EG	N	С	Doctor
	XBPBZ30P04000	AA	DD		С	Screw (3×4)
	XUBUZ30P06000	AA	DD		С	Screw (3×6)
	RDTCM0001YSZZ	AZ	FQ	N	В	ATC sensor
	LHLDZ0002YSZZ	AC	DJ	N	С	MG holder
	MSPRK0001YSZZ	AB	DJ	N	С	Bias spring
	LHLDZ0001YSZZ	AD	DJ	N	С	Bearing holder
	XRESP50-06000	AA	DD		С	E type ring
	PCŌVP0001YSZZ	AE	DJ	N	С	DV-F side cover
	PSHEA0004YSZZ	AC	DJ	N	С	DV side sheet
32	CCOVP0003YS52	AS	EQ	N	Е	MG cover unit



9 Fusing unit

Ļ	9 F	using unit					
	NO.	PARTS CODE		RANK	NEW	PART	DESCRIPTION
			Ex.		MARK	RANK	
		XBPSD30P05KS0	AA	DD		С	Screw (3×5KS)
L		CTHM-0018FC01	AR	EQ		В	Thermostat
L		DHA i - 0 0 6 5 Q S Z Z X H B S D 3 0 P 0 6 0 0 0	AF	DS	N	С	Fusing harness
H		PCOVP0029QSZZ	AA AX	DD FG	N	C	Screw (3×6) Fusing cover
^	5	RLMPU0005QSZZ	BA	FX	N	В	Heater lamp (100V)
$\triangle$	6	RLMPU0006QSZZ	BA	FX	N	В	Heater lamp (120V)
$\triangle$	ŭ	RLMPU0007QSZZ	BA	FX	N	В	Heater lamp (200V series)
	7	LSTPP0116FCZZ	AA	DD		С	Roller stopper
	8	LBSHZ0001QSZZ	AK	DX	N	С	Fusing bush
		XBPSD30P08KS0	AA	DD		С	Screw (3×8KS)
L		CFRM-0017QS01	AH	DX	N	С	Fusing frame F
L		NRŌL i 0 0 3 0 QSZZ	BC	GJ	N	С	Upper heat roller
ŀ		CFRM-0018QS01	AH	DX	N	С	Fusing frame R
H		NGERH0540FCZ1 LHLDZ0034QSZZ	AE AF	DJ DS	N	C	Fushing gear (45T) Lamp holder
F		XBPSD30P10KS0	AB	DD	IN	C	Screw (3×10KS)
F		RDTCT0005QSZZ	AN	EQ	N	В	Thermistor
f		LPLTM0050QSZZ	AM	EG	N	С	Fusing joint plate
	18	MSPRT0086QSZZ	AB	DJ	N	С	Upper pawl pressure spring
		PTME-0007GCZA	AG	DS		С	Separator pawl
L		PGiDM0034QSZZ	AP	EQ	N	С	Fusing rear paper guide
L		XEBSD30P06000	AA	DD		С	Screw (3×6)
		XBBSD30P06000	AA	DD		С	Screw (3×6)
ŀ		LPLTP0051QSZZ PSHEP0053QSZ1	AD	DJ	N	С	PG fixing plate PG sheet
ŀ		PGiDH0033QSZZ	AK AL	DX EB	N N	C	Fusing front paper guide
}		NSFTZ0016QSZZ	AH	DX	N	C	Fusing front PG adjusting shaft
F		NRŌLR0031QSZZ	BC	GJ	N	C	Pressure roller
f		NBRGP0260FCZ1	AD	DS		C	Pressure bearing N
	29	XRESP30-06000	AA	DD		С	E type ring
		LX-BZ0013QSZ1	AC	DD	N	С	Screw (3×7)
		MSPRP0087QSZZ	AC	DJ	N	С	PG earth spring
L		MSPRT0089QSZZ	AC	DJ	N	С	Pressure spring B
L		MLEVP0018QSZZ	AF	DS	N	С	Fusing pressure lever F
ŀ		MLEVP0019QSZZ MLEVP0020QSZZ	AD	DJ	N_	C	Release lever F Release lever R
-		MLEVP0020Q322 MLEVP0017QSZZ	AD AF	DJ DS	N N	C	Fusing pressure lever R
F	30	TLABH0061QSZZ	AE	DJ	N	C	High temperature caution label (Japan only)
	39	TLABH0062QSZZ	AE	DJ	N	C	High temperature caution label (Except Japan)
ľ	40	LFRM-0019QSZZ	AT	EZ	N	С	Fusing lower frame
		LPLTP0060QSZZ	AK	DX	N	С	Reverse gate
L		MLEVP0026QSZZ	AG	DX	N	С	DMC actuator
		MSPRD0117QSZZ	AB	DJ	N	С	Rotetion spring
L		MSPRD0118QSZZ	AB	DJ	N	С	Actuator return spring
ŀ		XEBSD30P10000 PSHEZ0105QSZZ	AA AC	DD DJ	N	C	Screw (3×10) Fusing sheet
F		PSHEZ0121QSZZ	AG	DS	N	C	Upper pawl fixing plate
F		LX-WZ0313FCZZ	AA	DD		C	Washer
		CPLTP0060QS51	AV	FG	N	E	Reverse gate unit
f		(Unit)					
$\triangle$	-	DUNTW0037QSZZ	BX	TF	N	Е	Fusing unit (100V)
$\triangle$	901	DUNTW0037QS11	BW	RR	N	E	Fusing unit (120V)
$\triangle$		DUNTW0037QS12	BW	RR	N	E	Fusing unit (200V series)
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#### 10 Main drive unit

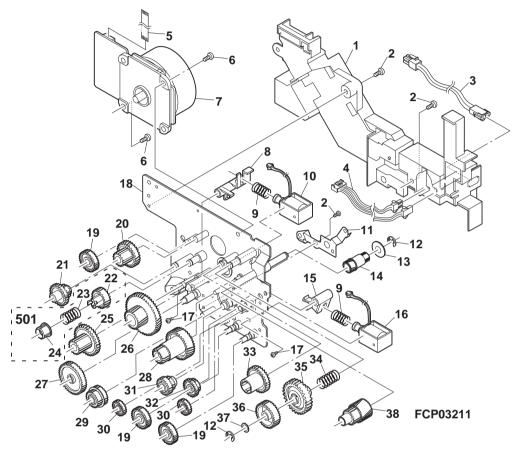
NO.	PARTS CODE	PRICE	RANK	NEW	PART	DESCRIPTION
INO.	PARTS CODE	Ex.	Ja.	MARK	RANK	DESCRIPTION
1	PGiDM0030QSZZ	AL	EB	N	С	Harness guide
2	XHBSD30P08000	AA	DD		С	Screw (3×8)
3	DHAi-0110QSZZ	AP	EQ	N	С	HL harness
4	DHAi-0089QSZZ	AH	DX	N	С	Thermister harness
	DHAi-0114QSZZ	AC	DJ	N	С	Main motor harness
6	XBBSD40P10000	AA	DD		С	Screw (4×10)
	RMŌTP0014QSZZ	BH	GX	N	В	Main motor
8	PTME-0003QSZ1	AD	DJ	N	С	Roller pawl
9	MSPRC1318FCZ1	AA	DJ		С	Spring B
	RPLU-0009QSZZ	AN	EG	N	В	Solenoid CSA
	LPLTM0048QSZZ	AF	DS	N	С	Drive earth plate
12	XRESP40-06000	AA	DD		С	E type ring
13	LX-WZ0002QSZZ	AB	DD	N	С	PO belt washer
14	NGERH0053QSZZ	AD	DJ	N	С	Gear (25/18T)
15	PTME-0012QSZZ	AC	DJ	N	С	PS clutch pawl
16	RPLU-0008QSZZ	AN	EG	N	В	Solenoid PS
17	XBBSD30P04000	AA	DD		С	Screw (3×4)
	CPLTM0047QS01	BA	FX	N	С	Main drive unit
19	NGERH0010QSZZ	AD	DJ		С	Gear (28T)
20	NGERH0009QSZZ	AD	DJ		С	Gear (46/16T)
21	NGERH0014QSZZ	AD	DJ		С	Gear (30/15T)
22	NGERH0011QSZZ	AD	DJ		С	MG gear
	MSPRC2132FCZ1	AA	DJ		С	MG roller spring
24	NCPL-0004FCZZ	AB	DD		С	Cupring B
25	NGERH0052QSZZ	AE	DJ	Ν	С	Gear (38/18T)
26	NGERH0007QSZZ	AH	DX		С	Gear (68/26T)
27	NGERH0057QSZZ	AE	DJ	N	С	Gear (41T)
28	NGERH0008QSZ1	AL	EB		С	Gear (55/19T)
29	NGERH0059QSZZ	AD	DJ	N	С	Gear (23/27T)
	NGERH0012QSZZ	AE	DS		С	Gear (20T)
	NGERH0058QSZZ	AF	DS	N	С	Gear (21/17T)
	NGERH0013QSZZ	AG	DX		С	Gear (31/17T)
33	NGERH0016QSZZ	AD	DJ		С	Cupring gear (34T)
34	MSPRC0081QSZZ	AB	DJ	N	С	HT ratchet spring
	NGERH0055QSZZ	AE	DJ	N	С	Ratchet gear (44T)
	NGERH0056QSZZ	AE	DJ	N	С	Ratchet gear (33T)
	LX-WZ0314FCZZ	AA	DD		С	Washer
38	NGERH0054QSZZ	AD	DJ	N	С	Gear (33/20T)
501	CGERH0011QS51	AE	DS		Е	MG gear unit

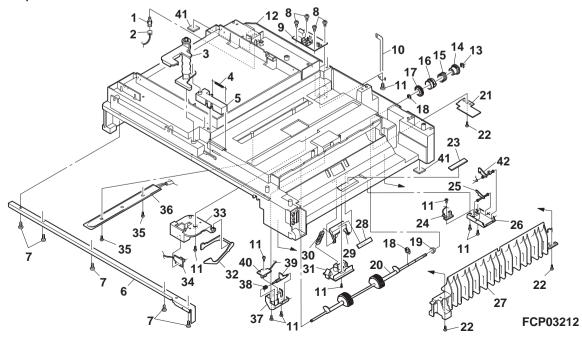
NO.	PARTS CODE		RANK	NEW		DESCRIPTION
		Ex.	Ja.	MARK		223011111111111111111111111111111111111
	QSW-B0003QSZZ	AF	DS		В	Tray detect switch
	DHAi-0091QSZZ	AF	DS	N	С	Tray SW harness
	PTME-0013QSZZ	AL	EB	N	С	Door lock pawl
	MSPRT0100QSZZ	AB	DJ	N	С	Door lock lever spring
	MLEVP0022QSZZ	AE	DJ	N	С	Door lock lever
	LPLTM0065QSZZ	AL	EB	N	С	Base reinforce plate F
	XEPSD40P12000	AA	DD		С	Screw (4×12)
	XEBSD30P10000	AA	DD		С	Screw (3×10)(Japan only)
	CPWBF0023QS51	BA	FX	N	E	Dry heater PWB (Japan only)
	LPLTM0066QSZZ	AF	DS	N	С	Tray earth plate
	XEBSD30P08000	AA	DD		С	Screw (3×8)
12	GDAi-0002QSZZ	BH	GX	N	С	Base plate
	XRESP40-06000	AA	DD		С	E type ring
14	LBŌSZ1031FCZZ	AC	DJ		С	Clutch boss
	MSPRC1152FCZZ	AE	DJ		С	Clutch spring
16	PPiPP0006QSZZ	AD	DJ	N	С	Clutch sleeve
17	NGERH0060QSZZ	AH	DX	N	С	Clutch gear (34T)
18	XRESP50-06000	AA	DD		С	E type ring
19	NBRGP0007QSZZ	AD	DJ	Ν	С	Bearing (\( \phi \)6)
20	CRŌLP0039QS01	AW	FG	Ν	С	Paper feeding roller
21	GFTA-0005QSZZ	AC	DJ	N	С	2nd drive cover
22	XEBSD40P12000	AA	DD		C	Screw (4×12)
23	PSHEZ2174FCZZ	AB	DD		С	Paper feeding sheet
24	CPWBF1177FC66	AP	EQ	N	Е	Manual paper feeding sensor PWB
25	MLEVP0023QSZZ	AE	DS	Ν	С	MF sensor actuator
26	PCOVP0033QSZZ	AF	DS	N	С	Manual feed sensor cover
0=	LRALP0005QSZZ	AN	EQ	N	C	Base plate rail R (Except Europe)
27	LRALP0005QSZA	AQ	EQ	N	С	Base plate rail R (For Europe)
28	PSHEZ2026FCZ1	AB	DD		С	Sheet M1
	LHLDZ0017QSZZ	AD	DJ		C	Pressure plate holder
	MSPRC0101QSZZ	AB	DJ	N	C	Pressure plate spring
	GFTA-0007QSZZ	AE	DS	N	C	Pressure plate cover
	MLEVP0024QSZZ	AF	DS	N	C	Sensor lever ACT
	LDAiU0011QSZZ	AF	DS	N	C	Sensor base
	CPWBF1177FC65	AP	EQ	N	Ē	Tray sensor PWB
	XEBSD30P08000	AA	DD		C	Screw (3×8)(Japan only)
	RHET-0004QSZ1	AP	EQ	N	В	Dry heater (tray) (Japan only)

### 11 Base plate unit 1

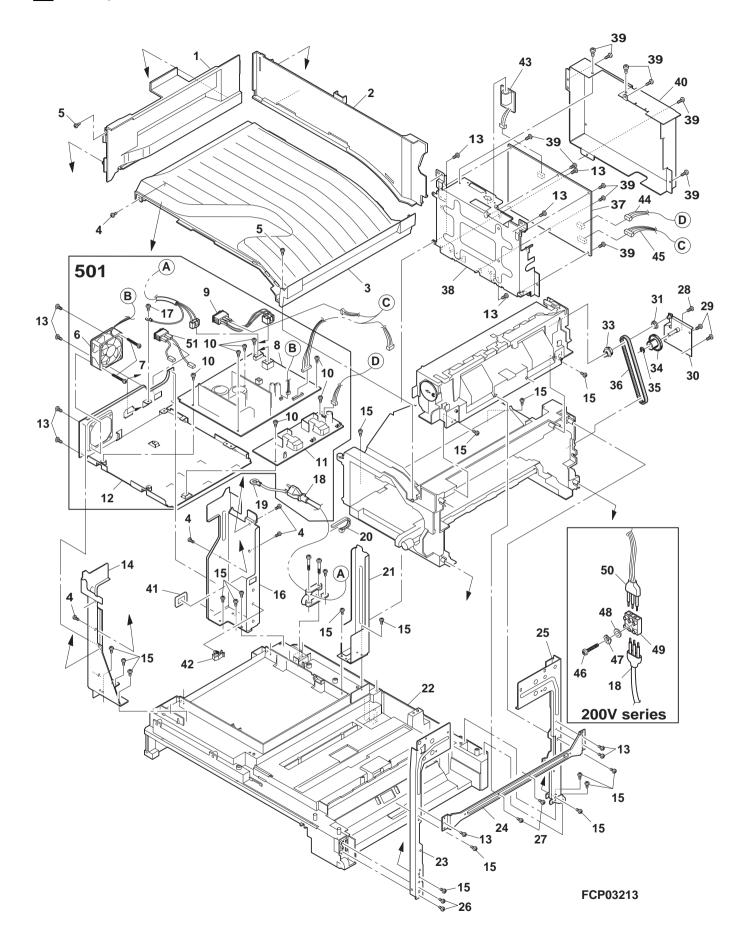
NO.	PARTS CODE					DESCRIPTION
		Ex.	Ja.	MARK	RANK	DESCRIPTION
	PCŌVP0032QSZZ	AE	DJ	N	С	PS sensor cover
38	MSPRC0099QSZZ	AC	DJ	N	С	PS actuator spring
39	MLEVP0021QSZZ	AD	DJ	N	С	PS front actuator
40	CPWBF1177FC67	AP	EQ	N	Е	PS sensor PWB
41	GLEGG0064FCZZ	AC	DJ		С	Rubber foot
42	MLEVP0044QSZZ	AE	DS	N	С	MF sensor actuator 2

#### 10 Main drive unit





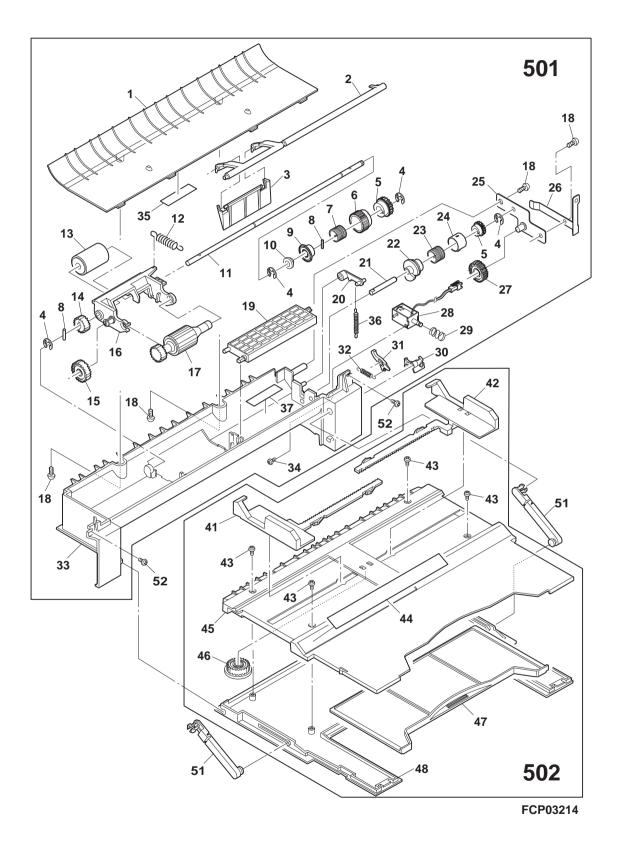
Ļ	12 E	sase plate unit		D 4 1 11 /			
	NO.	PARTS CODE		RANK	NEW MARK		DESCRIPTION
ŀ		GCŌVH0014QSZZ	Ex.	Ja. EQ	N	C	Delivery left cover (Except Europe)
	1	GCŌVH0014QSZA	AS	EQ	N	С	Delivery left cover (Except Europe)
	2	GCŌVH0012QSZZ	AS	EQ	N	C	Delivery rear cover (Except Europe)
		GCOVH0012QSZA	AT	EZ	N	С	Delivery rear cover (For Europe)
	3	LSŌU-0013QSZZ LSŌU-0013QSZA	BB BB	FX GD	N N	D D	Delivery tray (Except Europe) Delivery tray (For Europe)
	4	XEBSE30P08000	AA	DD	IN	С	Screw (3x8)
ŀ		XHBSE30P08000	AA	DD		C	Screw (3×8)
	6	NFANP0003QSZZ	AY	FQ	N	В	PS fan
	7	XBPSD30P30KS0	AA	DD		С	Screw (3×30KS)
$\triangle$	0	RDEN-0002QSZZ	BX	TF	N	Е	Low voltage power supply unit (100V)  Low voltage power supply unit (120V)
$\triangle$	8	RDEN-0002QS11 RDEN-0002QS12	BX BY	RR TF	N N	E E	Low voltage power supply unit (120V)  Low voltage power supply unit (200V series)
۷	9	DUNTK0049QSZZ	AU	EZ	N	Ē	AC switch unit
		XBPSD30P08KS0	AA	DD		С	Screw (3×8KS)
$\triangle$		RDEN-0001QSZZ	BK	HG	N	E	High voltage power supply unit
-		LPLTM0082QSZZ XHBSD30P06000	AR AA	EQ DD	N	C	PS PWB fixing plate Screw (3×6)
ŀ		LFRM-0022QSZZ	AP	EQ	N	C	Corner frame FL
ŀ		XEPSD40P12000	AA	DD		C	Screw (4×12)
		LFRM-0023QSZZ	AQ	EQ	N	С	Corner frame RL
,	17	XBPSN40P06K00	AA	DD		С	Screw (4×6K)
<u>∧</u>		DHAi-0137QSZZ DHAi-0136QSZZ	AW	FG FQ	N N	B B	AC cord (100V)(Japan) AC cord (120V)(USA,CANADA)
<u>^</u>	18	DHA i - 0142QSZZ	AX	FG	N	В	AC cord (For Europe)
$\stackrel{\ldots}{\wedge}$	.5	DHA i -0143QSZZ	BA	FX	N	В	AC cord BS (U.Kingdom)
$\overline{\mathbb{A}}$		DHAi-0144QSZZ	AZ	FQ	N	В	AC cord SAA (Australia)
-		DHA i -0139QSZZ	AG	DX	N	В	Earth wire (Japan only)
ŀ		LBNDJ2004SCZZ LFRM-0032QSZZ	AA AN	DD EG	N	C	Wire band (120V) Corner frame CR
ŀ		GDA i -0002QSZZ	BH	GX	N	С	Base plate
		LFRM-0025QSZZ	AM	EG	N	С	Corner frame FR
		LPLTM0099QSZZ	AK	DX	N	С	Corner frame R reinforce plate
ŀ		LFRM-0026QSZZ XHBSD30P12000	AS	EZ	N	С	Corner frame RR
-		XHBSD30P12000 XHBSD30P08000	AA AA	DD DD		C	Screw (3×12) Screw (3×8)
ŀ		XHBSD30P10000	AA	DD		C	Screw (3×10)
	29	XHBSD30P08000	AA	DD		С	Screw (3×8)
F		CPLTM0071QS01	AL	EB	N	С	Drive joint plate
-		NBRGC0529FCZZ NPLYZ0009QSZZ	AD AD	DJ DJ	N	C	Bearing 34 pulley
ŀ		NGERH0071QSZZ	AF	DS	N	С	Gear (28/42T)
	35	XRESP40-06000	AA	DD		С	E type ring
	36	NBLTT0007QSZZ	AH	DX	N	В	Delivery roller drive belt (328)
	07	CPWBX0021QS51	CD	UD	N	E	MCU PWB (AR-S160/AR-160) MCU PWB (AR-161··
	31	CPWBX0021QS54 CPWBX0021QS53	CD	UD	N N	E E	MCU PWB (AR-161·· MCU PWB (AR-161··
	38	LPLTM0063QSZZ	AU	EZ	N	C	MCU fixing plate
		XBBSE30P06000	AA	DD		С	Screw (3×6)
ŀ		LPLTM0064QSZZ	AR	EQ	N	С	MCU shield plate
-		PSHEP0090QSZZ LHLDW0049QSZZ	AD AC	DJ DJ	N N	C	Optical edge protect sheet A (Japan only)  Mini clamp (Japan only)
ŀ		CPWBF0033QS51	AP	EQ	N	E	RCU PWB
		DHAi-0101QSZZ	AK	DX	N	C	PS high volt harness
		DHAi-0105QSZZ	AW	FG	N	С	PS low volt harness
- }		XEBSD30P18000 XWSSD30-07000	AA	DD		С	Screw (3×18)(200V series) Washer (200V series)
		XWSSD30-07000 XWHSD30-05080	AA AA	DD DD		С	Washer (200V series) Washer (200V series)
ŀ		QTANN0015FCZZ	AG	DS		С	3P terminal base (200V series)
j	50	DHAi-0140QSZZ	AP	EQ	N	С	AC harness (200V series)
. [	51	DUNTK0088QSZZ	AU	EZ	N	E	Dry AC switch unit (Japan only)
$\triangle$	E01	DUNTK0050QSZZ DUNTK0050QS11	BF CD	GN UB	N N	E E	Power supply unit (100V) Power supply unit (120V)
<u> </u>	501	DUNTK0050QS11	CC	UB	N	E	Power supply unit (1207) Power supply unit (2007 series)
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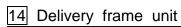




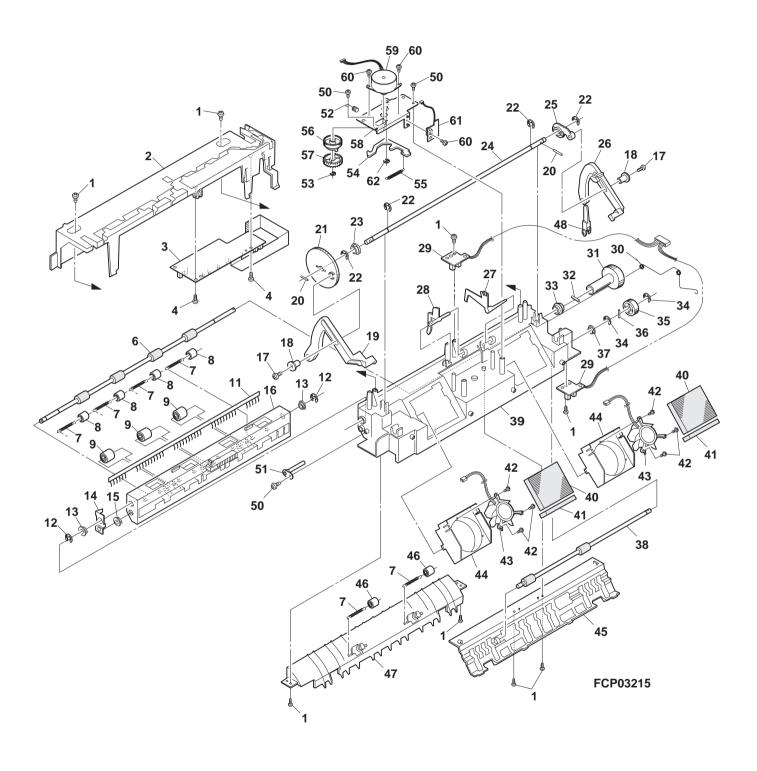
### 13 Manual paper feeding multi unit

13	Manual paper	reeain	g m	ulti i	unit	
NO.	PARTS CODE	PRICE	RANK	NEW	PART	DESCRIPTION
NO.		Ex.	Ja.		RANK	
1	PCOVP0030QSZZ		EG	N	С	Multi frame cover (Except Europe)
_	PCOVP0030QSZA		EG	N	С	Multi frame cover (For Europe)
	MARMP0008QSZZ LPLTP0056QSZZ		DX DJ	N N	C	Stopper arm Stopper plate
	XRESP40-06000		DD	IN	С	E type ring
	LBOSZ1510FCZZ		DX		C	Cam boss A1
	PPiPP0109FCZZ		DD		C	Pipe A
	MSPRC1315FCZ1	AD	DJ		C	Clutch spring A
	XPSSJ20-07000	AA	DD		C	Spring pin (\(\phi2-7\)
9	LBŌSZ1508FCZZ	AG	DX		С	Cam boss A2
10	LBSHZ0303FCZZ	AC	DJ		С	M bushing C
	NSFTZ0018QSZZ		EB	N	С	Roller shaft
	MSPRT0091QSZZ		DJ	N	С	Roller arm spring
	NRŌLR0922FCZZ		EZ		С	Manual paper feed roller
	NGERH0495FCZZ		DD		С	Gear (20T)
	NGERH0061QSZZ		DJ	N	С	Gear (24T)
	MARMP0009QSZZ CRŌLP1115FC01		DS EG	N	C	Roller arm Manual feed take-up roller
	XEBSD30P08000	AN AA	DD		C	Screw (3×8)
	MARMP0007QSZZ		DJ	N	С	Cam trasmission arm
	MARMP0007Q3ZZ		DJ	N	C	Arm
	NSFTZ0017QSZZ		DS	N	C	Manual feed cam shaft
	MCAMP0001QSZZ		DS	N	C	Drive cam
	MSPRC1316FCZ1	AE	DS	.,	C	MF clutch spring B
	PPiPP0009FCZZ		DJ	N	C	Cam clutch sleeve
	CPLTM0055QS01	AF	DS	N	C	Paper feeding joint plate
	MSPRD0092QSZZ		DJ	N	C	MF earth spring
	NGERH0972FCZZ		DJ		С	Gear (27T)
	RPLU-0007QSZZ		EG	N	В	Multi feeding solenoid
29	MSPRC1318FCZ1	AA	DJ		С	Spring B
	PTME-0179FCZZ		DD		С	Manual paper feeding pawl B
	PTME-0178FCZZ		DD		С	Manual paper feeding pawl A
32	MSPRC2175FCZZ		DJ		С	Pawl A spring
33	LFRM-0020QSZZ	AV	FG	N	С	Multi feed frame (Except Europe)
	LFRM-0020QSZA		FG	N	С	Multi feed frame (For Europe)
	XBBSD30P10000		DD		С	Screw (3×10)
	PSHEZ0099QSZZ		DJ	N	С	Protect sheet
	MSPRT0147QSZZ		DJ	N	С	Stopper arm spring
	PSHEZ0100QSZZ		DJ	N	С	Protect sheet C
	PG i DM0 0 3 7 QS ZZ		DS	N	С	MB side guide F
	PGiDM0038QSZZ XEBSE30P06000		DS	N	С	MB side guide R
43		AA AE	DD DJ	NI	C	Screw (3×6) Size graduation label (Japan only)
	LSŌU-0009QSZZ		FG	N N	D	Multi feed tray 1-U
	NGERH0193FCZZ		DD	IN	C	UC manual feed gear
	LSŌU-0011QSZZ		EB	N	D	Multi feed tray 2
	LSOU-0010QSZZ		FG	N	D	Multi feed tray 1-L
	MARMP005QSZZ		DJ	N	C	Tray arm
	XEBSD30P08000		DD		С	Screw (3×8)
504	CFRM-0020QS51	BK	HG	N	Е	Manual paper feeding multi unit (Except Europe)
501	CFRM-0020Q552		HR	N	Е	Manual paper feeding multi unit (For Europe)
502	CSOU-0009QS51		GJ	N	Е	Manual feeding tray unit (Japan only)
302	CSŌU-0009QS52	BD	GJ	N	Е	Manual feeding tray unit (Except Japan)
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14 1	Delivery frame	unit				
NO.	PARTS CODE		RANK	NEW	PART	DESCRIPTION
		Ex.	Ja.	MARK	RANK	
1	XEBSD30P08000	AA	DD		С	Screw (3×8)
2	GCŌVH0018QSZZ	AQ	EQ	N	С	Delivery front side cover (Except Europe)
<u> </u>	GCOVH0018QSZA	AR	EQ	N	С	Delivery front side cover (For Europe)
3	CPWBF0018QS51	AY	FQ	N	E	Delivery interface PWB (AR-S160/AR-160)
	CPWBF0018QS52 XEBSD30P06000	AY AA	FQ DD	N	E C	Delivery interface PWB (AR-161)
4	NROLP0033QSZZ	AA	EQ	N	C	Screw (3×6) Delivery roller S (AR-S160/AR-160)
6	NRŌLM0037QSZZ	AR	EQ	N	C	Delivery roller C (AR-161)
7	MSPRT0229GCAZ	AC	DJ	IN	C	FU spring R
	NRŌLP0034QSZZ	AD	DJ	N	C	Delivery roller
	NKOM-0002QSZZ	AC	DJ	N	C	Delivery collar
	PBRSR0005QSZZ	AK	EB	N	В	Discharge brush
	XRESP50-06000	AA	DD	IN	С	E type ring
	NBRGC0529FCZZ	AD	DJ		C	Bearing
	LPLTM0100QSZZ	AE	DJ	N	С	Delivery earth plate B
	NBRGY2122SCZZ	AB	DD	IN	В	Transport roller bearing 1 (AR-161)
	LHLDZ0040QSZZ	AS	EQ	N	С	Delivery roller holder (AK-101)
	XEBSD30P14000	AA	DD	IN	C	Screw (3×14)
	LBOSZ0048QSZZ	AD	DJ	N	C	Separator lever boss
	MLEVP0028QSZZ	AF	DS	N	C	Sparetor lever F
	XPSSJ20-10000	AA	DD		C	Spring pin (\$\phi2-10)
	NGERH0076QSZZ	AD	DJ	N	C	Separetor cam shaft
	XRESP50-06000	AA	DD	. 4	С	E type ring
	NBRGC0529FCZZ	AD	DJ		C	Bearing
	NSFTZ0025QSZZ	AQ	EQ	N	C	Separetor drive shaft
	MCAMP0002QSZZ	AE	DJ	N	С	Separetor drive smart Separetor drive cam
	MLEVP0027QSZZ	AF	DS	N	C	Sparetor lever R
	MLEVP0029QSZZ	AF	DS	N	С	FULL detecter lever
	MLEVP0025QSZZ	AD	DJ	N	C	Delivery actuator
	CPWBF1177FC64	AP	EQ	N	E	Duplex / P-out sensor PWB
	MSPRD0143QSZZ	AF	DS	N	С	Delivery earth spring A
	NGERH0063QSZZ	AD	DJ	N	С	Delivery drive gear (30T)
	LPiNS0258FCZZ	AA	DD	IN	С	Spring pin (\(\phi 3-8\)
	NBRGM0008QSZZ	AE	DJ	N	С	Bearing (\(\phi6\))
	XRESP40-06000	AA	DD	IN	C	E type ring
25	NGERH0070QSZZ	AC	DJ	N	С	DUP delivery R gear (20T)
	XPSSJ20-10000	AC	DD	IN	C	Spring pin (\(\phi 2-10\)
	NBRGY2122SCZZ	AB	DD		В	Transport roller bearing 1
	NRŌLP0038QSZZ	AP	EQ	N	С	DUP delivery roller
	LFRM-0027QSZZ	AV	FG	N		Delivery frame
	PFiLZ0004QSZZ				С	Ozone filter
		AM	EG	N	В	
	PMLT-0027QSZZ XEBSD20P06000	AC	DJ	N	C	Cleaning fan cushion Screw (2×6)
	NFANP0002QSZZ	AA	DD	N.I.		
	PDUC-0003QSZZ	AY	FQ	N	В	Cooling fan
	PGiDM0039QSZZ	AK AS	DX EQ	N N	C	Cleaning fan duct Delivery upper paper guide
	NRŌLP1122FCZZ	AF	DS	IN	C	PS upper roller
		AQ	EQ	NI	C	Delivery lower paper guide
	MLEVP0045QSZZ	AQ	DJ	N N	C	Delivery ATC lever
	XEBSD30P08000			IN		
		AA	DD	N.	С	Screw (3×8)         (AR-161)           Shifter shaft         (AR-161)
	CSFTZ0023QS01	AH	DX	N	С	
	MSPRD0144QSZZ	AC	DJ	N	С	Delivery earth spring B (AR-161)
	XRESP40-06000	AA	DD	K./	С	E type ring (AR-161)
	LSTPP0003QSZZ	AE	DJ	N	С	Shifter stopper (AR-161)
	MSPRT0107QSZZ	AC	DJ	N	С	Shifter return spring (AR-161)
	NGERHOO67QSZZ	AD	DJ	N	С	Shifter gear (24T) (AR-161)
	NGERH0068QSZZ	AD	DJ	N	С	Shifter gear (50T) (AR-161)
	CPLTM0075QS01	AL	EB	N	С	Shifter drive plate (AR-161)
	RMŌTP0018QSZZ	AV	FG	N	В	Shifter motor (AR-161)
	XHBSF30P05000	AA	DD	.,	С	Screw (3×5) (AR-161)
	CPWBF1177FC68	AP	EQ	N	E	Shifter HP sensor PWB (AR-161)
62	XRESP30-06000	AA	DD		С	E type ring (AR-161)
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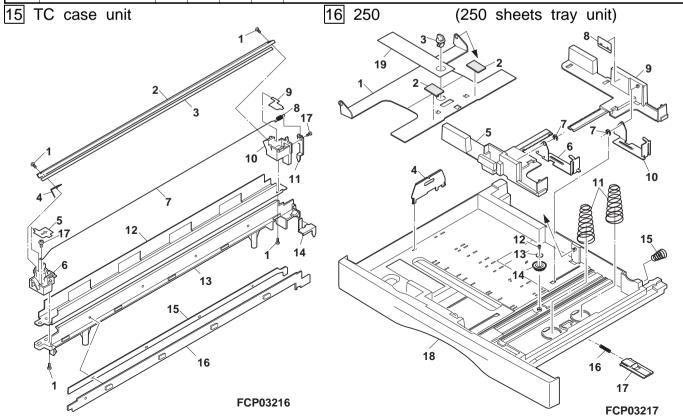


#### 15 TC case unit

NO.	PARTS CODE	PRICE Ex.	RANK Ja.		PART RANK	DESCRIPTION
1	XEBSE30P08000	AA	DD		С	Screw (3×8)
2	PGiDH0031QSZZ	AH	DX	N	С	TC front guide
3	PSHEP0050QSZZ	AC	DJ	N	С	TC sheet
4	LPLTM0059QSZZ	AC	DJ	N	С	TC upper PG earth spring plate
	PSHEP0051QSZZ	AB	DJ	N	С	TC cover sheet F
6	LHLDZ0030QSZZ	AD	DJ	N	С	TC holder F
7	DWiR-0466CSZZ	BG	HC		В	Charger wire
8	MSPRT0513FCZ1	AA	DJ		С	MC tension spring
_		AB	DJ	N	С	TC cover sheet R
	LHLDZ0032QSZZ	AD	DJ	N	С	TC holder R
11	QSLP-0009QSZZ	AD	DJ	N	С	TC electrode plate
	PCASZ0006QSZZ	AM	EG	N	С	TC case
13	LHLDZ0031QSZZ	AK	EB	N	С	Discharge holder
	QSLP-0008QSZZ	AD	DJ	N	С	BC electrode plate
	LPLTZ0049QSZZ	AG	DS	N	С	Discharge plate
	PGiDM0032QSZZ	AE	DS	N	С	Separator guide
17	XEBSD30P06000	AA	DD		С	Screw (3×6)
	(Unit)					
901	CHLDZ0030QS51	BA	FX	N	E	TC unit

### 16 250 sheets tray unit

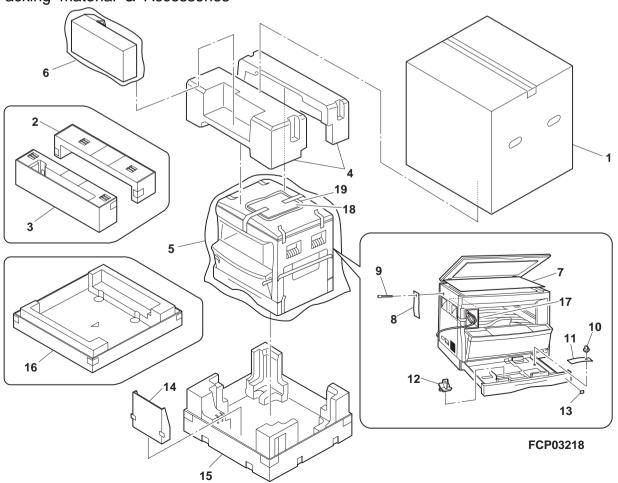
	, ,	PRICE	RANK	NFW	PART	DECODIDEION
NO.	PARTS CODE	Ex.	Ja.		RANK	DESCRIPTION
1	LPLTM0053QSZZ	AS	EQ	Ν	С	Rotation plate
2	PSHEZ0054QSZZ	AC	DJ	N	С	Rotation plate sheet
3	LHLDW1226FCZZ	AB	DJ		С	Turn fasner
4	LPLTM2642FCZZ	AC	DJ		С	Tray rear plate
5	PGiDM0035QSZZ	AP	EQ	N	С	Guide F
6	PTME-0255FCZZ	AG	DS		С	250 Tray pawl F
7	XRESP40-06000	AA	DD		С	E type ring
8	TLABH0064QSZ1	AC	DJ	N	С	Indicator label
9	PGiDM0036QSZZ	AP	EQ	N	С	Guide R
10	PTME-0256FCZZ	AG	DS		С	250 Tray pawl R
11	MSPRC0090QSZZ	AD	DJ	N	С	Tray spring
12	XEBSD30P08000	AA	DD		С	Screw (3×8)
13	XWHSD30-08100	AA	DD		С	Washer
	NGERH0193FCZZ	AB	DD		С	UC manual feed gear
	MSPRC1873FCZ1	AB	DJ		С	Tray spring
16	MSPRC1145FCZZ	AA	DD		С	Stopper spring
17	LSTPP0161FCZZ	AB	DD		С	Rotation plate stopper
18	GCASP0003QSZZ	AZ	FQ	Ν	D	Tray case
19	TTAG-0004QSZZ	AC	DJ	N	D	Tray rotation tag
	(Unit)					
901	CCASP0003QS51	BG	GX	Ν	Е	250 Tray unit



#### 17 Packing material & Accessories

NO.	PARTS CODE	PRICE Ex.	FANK Ja.		PART RANK	DESCRIPTION	
	SPAKC0135QSZZ	AY	FQ	N	D	Packing case (Japan only)	(AR-S160
	SPAKC0100QS14	AY	FQ	N	D	Packing case (USA)	(AR-160
	SPAKC0091QSZZ	AY	FQ	N	D	Packing case (For Europe except U.Kingdom)	(AR-160
1	SPAKC0100QS12	AY	FQ	N	D	Packing case (CANADA, Australia, U. Kingdom, Others)	(AR-160
•	SPAKC0100QS15	AY	FQ	N	D	Packing case (USA)	(AR-161
	SPAKC0091QS11	AY	FQ	N	D	Packing case (For Europe except U.Kingdom)	(AR-16
	SPAKC0100QS13	AY	FQ	N	D	Packing case (CANADA, Australia, U. Kingdom, Others)	(AR-16
2	SPAKA0132QSZZ	AR	EQ	N	D	Top packing cushion F OC (Japan only)	,
3	SPAKA0131QSZZ	AT	EZ	N	D	Top packing cushion F OC (Japan only)	
4	SPAKA0083QSZZ	AX	FG	N	D	Top packing cushion (Except Japan)	
	SSAKH9982QCZZ	AF	DS		D	Vinyl bag (1190×940mm)	
6	UBAGF0018YSZ1	AF	DS	N	D	DV aluminum bag	
7	SPAKA0134QSZZ	AE	DJ	N	D	OC protection sheet	
8	TCADZ0010QSZZ	AC	DJ		D	Fixer screw caution card	
9	LX-BZ0015QSZZ	AF	DS	N	С	2nd,3rd mirror fixing screw	
10	LHLDW1226FCZZ	AB	DJ		С	Turn fasner	
11	TTAG-0004QSZZ	AC	DJ	N	D	Tray rotation tag	
12	CCLEZ0005QS51	AQ	EQ		Е	Charger cleaner unit	
	TLABH0065QSZZ	AN	EG	N	С	Size display label (AB series)	
13	TLABH0069QSZZ	AN	EG	N	С	Size display label (Inch series)	
14	SPAKA0133QSZZ	AG	DS	N	D	Spacer A (Japan only)	
15	CPAKA0084QS01	BA	FX	N	D	Bottom packing cushion (Except Japan)	
16	SPAKA0130QSZZ	BA	FX	N	D	Bottom packing case (Japan only)	
17	SPAKA0150QSZZ	AF	DS	N	D	Accessories protection packing cushion	
	TiNSJ0114QSZZ	AX	ZZ	N	D	Operation manual (Japanese) (Japan)	
	TiNSE0115QSZZ	AS	EQ	N	D	Operation manual (USA)	
	TiNSE0116QSZZ	AS	EQ	N	D	Operation manual (English) (CANADA, Germany, U. Kingdom, Australia)	
	TiNSF0117QSZZ	BA	FX	N	D	Operation manual (French) (CANADA)	
18		BB	GD	N	D	Operation manual (German) (Germany)	
	TiNSS0119QSZZ	AY	FQ	N	D	Operation manual (Spanish)	
	TiNSi0120QSZZ	AT	EZ	N	D	Operation manual (Italian)	
	TiNSZ0121QSZZ	AY	FQ	N	D	Operation manual (Swedish)	
	TiNSZ0122QSZZ	AY	FQ	N	D	Operation manual (Dutch)	
19	SSAKA2343QCZZ	AA	DD		D	Vinyl bag (260×380mm)	
101	TLABH0068QSZZ	AF	DS	N	С	Label (AB series)	·
	TLABH0078QSZZ	AF	DS	N	С	Label (Inch series)	
102	GCŌVZ0023QSZZ	BA	FX	N	D	Dust cover (Japan only)	

### 17 Packing material & Accessories



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## 18 MCU PWB

10 1	VICU PVVD					
NO.	PARTS CODE	PRICE	RANK	NEW	PART	DESCRIPTION
INO.	PARTS CODE	Ex.	Ja.	MARK	RANK	DESCRIPTION
1	QCNCM0016QSZZ	AL	EB	N	С	Connector (60pin) [CN7]
2	QCNCM0017QSZZ	AC	DJ	N	С	Connector (4pin) [CN17]
3	QCNCM0019QSZZ	AB	DJ	N	С	Connector (2pin) [CN19]
4	QCNCM0030QSZZ	AL	EB		С	Connector (60pin) [CN3]
5	QCNCM0846FCZZ	AF	DS		С	Connector (12pin) [CN12]
	QCNCM0877FCZZ	AF	DS		С	Connector (20pin) [CN10]
7	QCNCM0923FC22	AF	DS		Ċ	Connector (22Pin) [CN5]
	QCNCM0923FC24	AF	DS		Č	Connector (24pin) [CN11]
	QCNCM1005MCZZ	AB	DD		C	Connector (2pin) [CN36]
	QCNCM1006MCZZ	AB	DD		C	Connector (3pin) [CN22]
	QCNCM1119LC0C	AC	DJ	N	C	Connector (3pin) [CN28]
	QCNCM1119LC0D	AC	DJ	N	C	Connector (4pin) [CN15]
	QCNCM2401SC0C	AB	DJ	111	C	Connector (3pin) [CN29]
	QCNCM24013C0C	AC	DJ		C	Connector (4pin) [CN31]
			-			
	QCNCM2401SC0E	AC	DJ		С	Connector (5pin) [CN1]
	QCNCM7014SC0B QCNCM7014SC0C	AD	DJ		С	Connector (2pin) [CN18]
		AA	DD		С	Connector (3pin) [CN32]
	QCNCM7014SC0D	AB	DD		С	Connector (4pin) [CN27]
	QCNCM7014SC0E	AB	DJ		С	Connector (5pin) [CN34]
	QCNCM7014SC0F	AB	DD		С	Connector (6pin) [CN26]
	QCNCM7014SC0G	AB	DD		С	Connector (7pin) [CN6]
	QCNCM7014SC1A	AC	DJ		С	Connector (11pin) [CN8]
	QCNCM7014SC1B	AD	DJ		С	Connector (12pin) [CN4]
	QCNCM7014SC1J	AC	DD		С	Connector (10pin) [CN9]
	QCNCP0240QCZZ	AA	DJ		С	Connector (2pin) [CN14]
	QCNCP0242QCZZ	AA	DJ		С	Connector (2pin) [CN16]
	QCNCP0341QCZZ	AC	DJ		С	Connector (3pin) [CN33]
	QCNCW0015QSZZ	AE	DJ		С	Connector (5pin) [CN35]
29	QCNCW0024QSZZ	AF	DS		С	Connector (32pin) [CN2]
30	QCNCW0885FCZZ	AG	DX		С	Connector (12pin) [CN30]
	QCNCW0948FCZ3	AC	DJ		С	Connector (3pin) [CN23,24]
33	QCNCW1124LC0D	AB	DJ		С	Connector (4pin) [CN20]
34	QCNCW1124LC0H	AC	DJ		О	Connector (8pin) [CN13]
35	QCNCW1124LC1F	AC	DJ		C	Connector (16pin) [CN25]
	QSŌCZ6408ACZZ	AB	DD		С	8P DIP socket [for IC4]
38	RCRSZ0001QSZZ	AG	DS		В	Crystal (19.6608MHZ) [X1]
39	RCRSZ0003QSZZ	AP	EQ		В	Crystal (22.000MHZ) [X2]
40	RCRSZ0004QSZZ	AP	EQ	N	В	Crystal (20.3094MHZ) [X3]
41	RMPTW4000QCJJ	AB	DD		В	Block resistor (0 $\Omega$ ×4) [BR4,29,30]
					_	Block resistor (10K $\Omega$ ×4)
42	RMPTW4103QCJJ	AB	DD		В	[BR1,2,3,6,7,11,13~24,31,47,51,52,66~73]
43	RMPTW4203QCJJ	AA	DD		В	Block resistor (20KΩ×4) [BR43,44,45,53~65]
44	RMPTW4222QCJJ	AB	DD		В	Block resistor (2.2K $\Omega$ ×4) [BR50]
45	RMPTW4330QCJJ	AB	DD		В	Block resistor (33Ω×4) [BR5,8,9,10,12,32~38,40,41,42,74–82]
47	VCCCCY1HH120J	AA	DD		С	Capacitor (50WV 12PF) [C253]
48	VCCCCY1HH180J	AA	DD		С	Capacitor (50WV 18PF) [C11,12]
49	VCCCCY1HH101J	AA	DD		С	Capacitor (50WV 100PF) [C266,CN3,7]
50	VCCUCY1AJ105Z	AC	DD		С	Capacitor (10WV 1.0µF) [C15]
51		AA	DD		C	Capacitor (16WV 10µF) [C7,9,103]
52	VCEAGU1CW107M	AB	DD		C	Capacitor (16WV 100µF) [C25,32,33,35,37,41,42,73]
	VCEAGU1CW226M	AA	DD		Č	Capacitor (16WV 22µF) [C91,98,254,255]
	VCEAGU1CW476M	AB	DD		C	Capacitor (16WV 47µF) [C262,263]
	VCEAGU1HW107M	AC	DD		C	Capacitor (50WV 100μF) [C74]
	VCEAGA1VW106M	AA	DD		C	Capacitor (35WV 10μF) [C102]
57	VCEAGU1VW476M	AB	DD		C	Capacitor (35WV 47µF) [C72,75,76,96,97]
	VCKYCY1EB223K	AA	DD		C	Capacitor (25WV 0.022μF) [C13,14,17,24,30,89]
- 55						Capacitor (25WV 0.022μ1) [010,14,17,24,50,60]
	VCKYCY1EF104Z	AA	DD		С	[C1,8,10,16,19,20,22,26,27,28,29,31,34]
59	VCKYCY1EF104Z	AA	DD		С	Capacitor (25WV 0.10μF) [C36,43,58,62,65,69,84,85,87]
	VCKYCY1EF104Z	AA	DD		C	Capacitor (25WV 0.10μF) [C88,90,104,113,114,131~138]
	VCKYCY1EF104Z	AA	DD		C	Capacitor (25WV 0.10μF) [C200,201,202,203,205~251,CN5]
						Capacitor (50WV 1000PF)
60	VCKYCY1HB102K	AA	DD	N	С	[C4,5,18,21,23,77~81,105~112,115~130]
	VCKYCY1HB222K	AA	DD		С	Capacitor (50WV 2200PF) [C39,61,68,95,101]
	VCKYCY1HB471K	AB	DD		C	Capacitor (50WV 470PF) [C99,100,252]
	VHDDSS133//-1	AA	DD		В	Diode (DSS133) [D2~9]
	VHERD20EB3/-1	AB	DD		В	Zener diode (RD20EB3) [D1]
	VHEUDZS5.6B-1	AC	DJ		В	Zener diode (VDZS5.6B) [ZD1~16]
	VHiHG73C025FD	BE	GN		В	IC (HG73C025FD) [IC13]
	VHiH8S/2350FP	AY	FQ		В	CPU (H8S/2350FP) [IC1]
	VH i LM358PS/-S	AC	DJ		В	IC (LM358PS) [IC10]
	VH i MC 7 8 0 5 CT - 2	AE	DS		В	IC (MC7805CT-2) [IC15]
	VH i M2 4 C 0 4 B N 6 /	AG	DX	N	В	IC (M24C04BN6) [IC4]
	VH i M51953BL -1	AG	DS	IN	В	IC (M24C04DN0) [IC4] IC (M51953BL) [IC2]
	VH i M66236FP-1	AT	EZ		В	IC (M66236FP) [IC14]
	VH i N J M 2 9 0 3 M / -	AD	DJ		В	IC (NJM2903M) [IC16]
	VH i N J M 3 4 1 4 M - 1	AF	DX		В	IC (NJM3414M) [IC9]
	VHINSM3414M-1	AP	EQ		В	IC (SLA7027MUL) [IC9]
	VHISTA401A/-1	AQ	EQ			IC (STA401A) [IC26]
/6		AF	DS		B B	IC (STA40TA) [IC26] IC (TA7291S) [IC27]
77	VH:TA7291S/-1					



NO.	PARTS CODE		RANK	NEW	PART RANK	DESCRIPTIO	DN
70	VHiTD62503F/-	Ex.	Ja. DX	WAKK	B	IC (TD62503F)	[IC31]
	VH i ULN2003AN1	AG	DJ		В	IC (ULN2003AN1)	[IC28,29,38]
	VH i W24258A12J	AN	EG	N.I		IC (W24258A12J)	[IC18,19,21,22,35,37]
80	VHi29F400BCA1	BA	FX	N N	B B	IC (W24258A123) IC (29F400BCA1)(AR-S160/AR-160)	[IC16, 19,21,22,35,37] [IC20]
81	VH i 29F400BCA1	BA	FX	N	В	IC (29F400BCB1)(AR-160)	[IC20]
00	VH i 65808GN146	BF		N	В	IC (65808GN146)	[IC20] [IC5]
	VH i 74HCT244MF	AH	GN DX	IN	В	IC (74HCT244MF)	[C3] IS3
	VH i 74LS244NS1	AH	DX		В	IC (74LS244NS1)	[IC3] [IC30,32,33]
	VH i 74VHC08/-1	AE	DS		В	IC (74VHC08)	[IC3,32]
	VH i TC74ACT32F	AF	DS		В	IC (TC74ACT32F)	[IC3,39] [IC12]
	VHV i CPN38//-1	AF	DS		В	IC (TC74ACT32F)	[F1,2,3,5,6,7]
	VRS-CY1JD000J	AA	DD		С	Resistor (1/16W 0 $\Omega$ ±5%)	[R94,115,202,FB3,4,9]
	VRS-CY1JD100J	AA	DD		C	Resistor (1/16W 10Ω ±5%)	[R8,51~56,61~66]
	VRS-CY1JD1003	AA	DD		C	Resistor (1/16W 1002 $\pm 5\%$ )	[R3,4,7,117,118]
	VRS-CY1JD1013	AA	DD		C	Resistor (1/16W 1.0KΩ ±5%)	[R13~18,24,25,33,137,201]
	VRS-CY1JD1023	AB	DD		C	Resistor (1/16W 1.0K $\Omega$ ±5%)	[R29,31,72,74]
	VRS-CY1JD1031	AA	DD		C	Resistor (1/16W 10K $\Omega$ ±5%)	[R1,2,5,6,10,23,50,70,73,85,93,97]
	VRS-CY1JD680J	AA	DD		C	Resistor (1/16W $68\Omega \pm 5\%$ )	[R105]
	VRS-CY1JD221J	AA	DD		C	Resistor (1/16W 220 $\Omega$ ±5%)	[R107]
	VRS-CY1JD511J	AA	DD		C	Resistor (1/16W 510Ω ±5%)	[R103]
					-	Resistor (1/16W 20K $\Omega$ ±5%)	[1(100]
	VRS-CY1JD203J	AA	DD		С	,	[R27,32,34,35,57~60,67,68,138,139,140]
	VRS-CY1JD205J	AA	DD		С	Resistor (1/16W 2.0M $\Omega$ ±5%)	[R28,30]
	VRS-CY1JD220F	AA	DD	N	С	Resistor (1/16W 22Ω ±1%)	[R76]
	VRS-CY1JD242F	AA	DD		С	Resistor (1/16W 2.4K $\Omega$ ±1%)	[R69,75]
	VRS-CY1JD242J	AA	DD		С	Resistor (1/16W 2.4K $\Omega$ ±5%)	[R81,100,109]
	VRS-CY1JD330J	AA	DD		С	Resistor (1/16W 30 $\Omega$ ±5%)	[R36~49]
	VRS-CY1JD331J	AA	DD		С	Resistor (1/16W 330Ω ±5%)	[R12,106,FB1]
	VRS-CY1JD472J	AA	DD		С	Resistor (1/16W 4.7K $\Omega$ ±5%)	[R19,21,26,77,78,79,87]
	VRS-CY1JD473J	AA	DD		С	Resistor (1/16W 47K $\Omega$ ±5%)	[R101,102,113,114]
	VRS-RE3DA1R0J	AB	DD		С	Resistor (2W 1.0 $\Omega$ ±5%)	[R104,108]
	VRS-RE3DA131J	AC	DD		С	Resistor (2W 130 $\Omega$ ±5%)	[R71]
	VRS-TP2BD221J	AB	DD		С	Resistor (1/8W 220Ω ±5%)	[R80,82,83,84,86,88,89]
	VRS-TP2BD472J	AA	DD		С	Resistor (1/8W 4.7K $\Omega$ ±5%)	[R111,112]
	VRS-TP2BD473J	AA	DD		С	Resistor (1/8W 47KΩ ±5%)	[R110]
	VSDTC114EK/-1	AB	DD		В	Transistor (DTC114EK)	[Q1,3]
	VS2SA1036KQRC	AB	DD		В	Transistor (2SA1036KQRC)	[Q2]
	VHiSC65165V6T	BW	RR	N	В	16MDRAM (SC65165V6T)(AR-161 ·· USA,CANADA)	[IC36]
	VHi16163CLT-6	BA	FX	N	В	64MDRAM (16163CLT-6)(AR-161 ·· USA,CANADA)	[IC34]
	VHD1N4005E/-1	AB	DJ		В	Diode (1N4005E)	[D10]
	RFiLN0019GCZZ	AC	DJ		В	Bead filter	[FB2,10,11]
	VRS-TS2AD101J	AA	DD		С	Resistor (1/10W 100 $\Omega$ ±5%)	[FB8]
119	VRD-HT2EY103J	AA	DD		С	Resistor (1/4W 10K $\Omega$ ±5%)	
	(Unit)						
I	CPWBX0021QS51	CD	UD	N	E	MCU PWB (AR-S160/AR-160)	
901	CPWBX0021QS54	CD	UD	N	Е	MCU PWB (AR-161 ·· USA,CANADA)	
	CPWBX0021QS53	CD	UD	N	Е	MCU PWB (AR-161 ·· Except USA,CANADA)	

# 19 COPY-Operation PWB

NO.	PARTS CODE	PRICE	RANK	NEW	PART	DECORIDATION
NO.	PARTS CODE	Ex.	Ja.	MARK	RANK	DESCRIPTION
1	QCNCW0020QSZZ	AG	DS	N	С	Connector (12pin) [CN1]
2	QCNCW0021QSZZ	AF	DS	N	С	Connector (15pin) [CN4]
3	QCNCW0022QSZZ	AE	DJ	N	С	Connector (25pin) [CN3]
4	QCNCW0023QSZZ	AE	DS	N	С	Connector (19pin) [CN2]
5	QSW-P0008QSZZ	AC	DJ	N	В	Switch (EVQ-23G-04K) [K1~5,7,8,9,11~14,16~20,22~33]
6	RCRMZ0001QSZZ	AE	DS	N	В	Crystal (9.8304MHZ) [X1]
7	RCRSZ0005QSZZ	AF	DS	N	В	Crystal (MX38T)(32.768KHZ) [X2]
8	VCCCCY1HH150J	AB	DD		С	Capacitor (50WV 15PF) [C12,13]
9	VCCCCY1HH300J	AB	DD		С	Capacitor (50WV 30PF) [C14,15]
10	VCEAJU1CW476M	AB	DD		С	Capacitor (16WV 47μF) [C1]
11	VCKYCY1HB102K	AA	DD	N	С	Capacitor (50WV 1000PF) [C2~7,10,11,18]
12	VCKYCY1HF103Z	AA	DD		С	Capacitor (50WV 0.010μF) [C8]
13	VCCUCY1AJ105Z	AC	DD		С	Capacitor (10WV 1.0μF) [C9]
14	VCKYCY1HF223Z	AA	DD		С	Capacitor (50WV 0.022μF) [C17]
15	VHDDSS133//-1	AA	DD		В	Diode (DSS133) [D56~67]
16	VHiH8/3643/-1	AU	EZ	N	В	IC (H8/3643) [IC1]
17	VHiTB62706AN/	AS	EQ	N	В	IC (TB62706AN) [IC3]
18	VHiTD62785F//	AN	EQ	N	В	IC (TD62785F) [IC2]
19	VHPLTC3650G01	AQ	EQ		В	Photo transistor (LTC3650G01) [U1]
	VHPMPG3864K-J	AC	DJ		В	LED (Green) (MPG3864K)(Japan,Australia) [D1~4,6,7,10,11,12,14,15,16,18~24]
20	VHPMPG3864K-J	AC	DJ		В	LED (Green) (MPG3864K)(Japan,Australia) [D26~33,35,36,37,39,40,41,43,44,46~50,52]
	VHPMPG3864K-J	AC	DJ		В	LED (Green) (MPG3864K)(Except Japan,Australia) [D1~4,6,7,10,11,12,14,15,16,18~20,22,23,24]

# 19 COPY-Operation PWB

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NO.	PARTS CODE	PRICE Ex.	RANK Ja.		PART RANK	DESCRIPTION
20	VHPMPG3864K-J	AC	DJ		В	LED (Green) (MPG3864K)(Except Japan,Australia) [D26-32,35,36,37,39,40,41,43,44,46-50,52]
21	VHPMVR3864K-J	AC	DJ		В	LED (Red) (MVR3864K) [D5,8,9,13,17,42,45,51,53,54]
22	VRD-RC2EY161J	AA	DD		С	Resistor (1/4W 160 $\Omega$ ±5%) [R1,9]
23	VRS-CY1JD000J	AA	DD		С	Resistor (1/16W $0\Omega \pm 5\%$ ) [R58]
24	VRS-CY1JD103J	AA	DD		С	Resistor (1/16W 10KΩ ±5%) [R10~17,20~24,26~44,46~49,51]
25	VRS-CY1JD105J	AA	DD		С	Resistor (1/16W 1.0M $\Omega$ ±5%) [R45]
26	VRS-CY1JD123J	AA	DD		С	Resistor (1/16W 12KΩ ±5%) [R18]
27	VRS-CY1JD471J	AA	DD		С	Resistor (1/16W 470Ω ±5%) [R8]
28	VRS-TP2BD6R8J	AA	DD	N	С	Resistor (1/8W $6.8\Omega \pm 5\%$ ) [R2~7]
29	VS2SA1162-Y-1	AB	DD		В	Transistor (2SA1162) [Q1]
30	VS2SC2712Y/-1	AB	DJ		В	Transistor (2SC2712Y) [Q4]
	(Unit)					
901	CPWBN0024QS51	BR	LP	N	Е	COPY-Operation PWB (Japan,Australia)
901	CPWBN0024QS52	BQ	LP	N	Е	COPY-Operation PWB (Except Japan, Australia)

#### 20 Duplex/P-out sensor PWB

NO.	PARTS CODE	PRICE				DESCRIPTION
	1711100002	Ex.	Ja.	MARK	RANK	Decenii Herr
1	DHAi-0100QSZZ	AG	DX	N	С	Duplex / P-out sensor harness
2	LBNDJ0037FCZ1	AA	DJ		С	Wire band (T18S)
	VCKYPU1HB102K	AA	DD		С	Capacitor (50WV 0.001μF)
4	VHPGP1S53V/-1	AE	DS		В	Photo transistor (GP1S53V)
	(Unit)					
901	CPWBF1177FC64	AP	EQ	N	Е	Duplex / P-out sensor PWB

#### 21 MHPS PWB

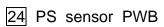
NO.	PARTS CODE	PRICE Ex.	RANK Ja.		PART RANK	DESCRIPTION
1	DHAi-0096QSZZ	AF	DS	N	С	Scanner HP sensor harness
2	LBNDJ0037FCZ1	AA	DJ		С	Wire band (T18S)
3	VCKYPU1HB102K	AA	DD		С	Capacitor (50WV 0.001μF)
4	VHPGP1S53V/-1	AE	DS		В	Photo transistor (GP1S53V)
	(Unit)					
901	CPWBF1177FC63	AP	EQ	N	E	MHPS PWB

## 22 Tray sensor PWB

NO.	PARTS CODE	PRICE	RANK		PART	DESCRIPTION
INO.	FARTS CODE	Ex.	Ja.	MARK	RANK	DESCRIPTION
1	DHAi-0092QSZZ	AF	DS	N	С	Tray empty sensor harness
2	LBNDJ0037FCZ1	AA	DJ		С	Wire band (T18S)
3	VCKYPU1HB102K	AA	DD		С	Capacitor (50WV 0.001μF)
4	VHPGP1S53V/-1	AE	DS		В	Photo transistor (GP1S53V)
	(Unit)					
901	CPWBF1177FC65	AP	EQ	N	Е	Tray sensor PWB

#### 23 Manual paper feeding sensor PWB

NO.	PARTS CODE	PRICE	RANK		PART	DESCRIPTION
IVO.		Ex.	Ja.	MARK	RANK	DEGOINI HON
1	DHAi-0093QSZZ	AF	DS	N	С	Hand empty sensor harness
2	LBNDJ0037FCZ1	AA	DJ		С	Wire band (T18S)
3	VCKYPU1HB102K	AA	DD		С	Capacitor (50WV 0.001μF)
4	VHPGP1S53V/-1	AE	DS		В	Photo transistor (GP1S53V)
	(Unit)					
901	CPWBF1177FC66	AP	EQ	N	Е	Manual paper feeding sensor PWB



NO.	PARTS CODE	PRICE	RANK			DESCRIPTION
INO.	FARTS CODE	Ex.	Ja.	MARK	RANK	DESCRIFTION
1	DHAi-0094QSZZ	AF	DS	N	С	Paper in sensor harness
2	LBNDJ0037FCZ1	AA	DJ		С	Wire band (T18S)
3	VCKYPU1HB102K	AA	DD		С	Capacitor (50WV 0.001μF)
4	VHPGP1S53V/-1	AE	DS		В	Photo transistor (GP1S53V)
	(Unit)					
901	CPWBF1177FC67	AP	EQ	N	Е	PS sensor PWB
	_					

#### 25 RCU PWB

NO.	PARTS CODE	PRICE	PRICE RANK		PART	DESCRIPTION
NO.	PARTS CODE	Ex.	Ja.	MARK	RANK	DESCRIPTION
1	DHAi-0133QSZZ	AH	DX	N	С	RCS PWB harness
2	QCNCM0029QSZZ	AK	DX	N	С	Connector (MD-S5130)(5pin)
	(Unit)					
901	CPWBF0033QS51	AP	EQ	N	E	RCU PWB

26 Low voltage power supply unit

	Tow voltage per		RANK	_	DADT	T
NO.	PARTS CODE	Ex.	Ja.	NEW	PART RANK	
	0KY0D113A003/					
1	0KY0D113A003/	AX AW	FG FG	N N	B B	
2		AF	DS	N	В	Diode (200V series)
	0KY0D202B001/	AZ	FQ	N	В	Diode (100V series)   [D116]
3	0KY0D202B006/	AZ	FQ	N	В	Diode (200V series) [D116]
4		AY	FQ	N	В	Diode (2007 Series) [D101]
	0KY0D208B006/	AQ	EQ	N	В	Diode (100V series) [D51]
5	0KY0D264A010/	AN	EQ	N	В	Diode (200V series) [D51]
6		AQ	EQ	N	В	Diode [D903]
7		AD	DJ	N	В	Diode [D4,104,105,108,111,118,120,904]
	0KY0D264A006/	AL	EB	N	В	Diode [D107]
9		AK	DX	N	В	Diode [D8]
	0KY0D466A024/	AE	DS	N	В	Diode [D119]
	0KY0D466A048/	AE	DS	N	В	Diode [D117]
12		AE	DS	N	В	Diode [D7]
	0KY0D466A105/	AU	EZ	N	В	Diode [D11,103]
	0KY0D513A406/	AU	EZ	N	В	Triac (100V series) [TRA2]
14	0KY0D513A606/	AU	EZ	N	В	Triac (200V series) [TRA2]
	0KY0D517A416/	BC	GD	N	В	Triac (100V series) [TRA1]
15	0KY0D517A616/	BC	GJ	N	В	Triac (200V series) [TRA1]
16		AY	FQ	N	В	Transistor [Q112]
17		AT	EZ	N	В	Transistor [Q902]
18		BA	FX	N	В	Transistor [Q901]
	0KY0T643A001/	BB	GD	N	В	Transistor (100V series) [Q1]
19	0KY0T617A001/	BA	FX	N	В	Transistor (200V series) [Q1]
20		AF	DS	N	В	Transistor [Q101,103,113,903,904]
21		AN	EQ	N	В	IC [IC902]
22	0KY0H128A001/	ΑZ	FQ	N	В	IC [IC1]
23	0KY0H130A012/	AT	EZ	N	В	IC [IC102]
24	0KY0H141A001/	AZ	FQ	N	В	IC [IC101]
25	0KY0H153A001/	AP	EQ	N	В	IC [IC103,901]
00	0KY0H719A001/	AN	EG	N	В	Photo coupler (100V series) [PC1,2,4]
26	0KY0H723A001/	AP	EQ	N	В	Photo coupler (200V series) [PC1,2,4]
27	0KY0H725A001/	AV	FG	N	В	Photo coupler [PC10]
00	0KY0D719A471/	AM	EG	N	В	Varister (100V series) [Z1,2]
28	0KY0D719A471/	AM	EG	N	В	Varister (200V series) [Z1]
29	0KY0K651A362/	AV	FG	N	В	Arrester (100V series) [AL1]
30	0KY0D802A101/	AS	EQ	N	В	Fuse resistor [PTC101]
31		AC	DJ	N	С	Resistor [R118,150,156]
	0KY0R153U220/	AC	DJ	N	С	Resistor [R24]
	0KY0R153U221/	AC	DJ	N	С	Resistor [R104]
34	0KY0R153U331/	AC	DJ	N	С	Resistor [R107,109]
35		AC	DJ	N	С	Resistor [R122]
36		AC	DJ	N	С	Resistor [R37]
37		AC	DJ	N	С	Resistor [R8,33,142,154]
38		AC	DJ	N	С	Resistor [R103]
39		AC	DJ	N	С	Resistor [R106,128,144,907]
	0KY0R153U272/	AC	DJ	N	С	Resistor [R143]
41		AC	DJ	N	С	Resistor [R110,119]
42		AC	DJ	N	С	Resistor [R14,108]
	0KY0R153U103/	AC	DJ	N	С	Resistor [R23,27,28,30,120,123,901]
44		AC	DJ	N	С	Resistor [R114]
45		AC	DJ	N	С	Resistor [R113,127]
46	0KY0R153U223/	AC	DJ	N	С	Resistor [R105]

## 26 Low voltage power supply unit

NO.	PARTS CODE 0KY0R153U273/	Ex.	Ja. DJ		PART RANK C	DESCRIPTION	[R117,
	0KY0R153U473/	AC	DJ	N	C	Resistor	[R29,
	0KY0R153U683/	_	DJ	N	C	Resistor	[R111,
		AC					
	0KY0R153U104/	AC	DJ	N	С	Resistor	[F
	0KY0R153U224/	AC	DJ	N	С	Resistor	[R <sup>*</sup>
_	0KY0R153U105/	AC	DJ	N	С	Resistor	[R <sup>2</sup>
53	0KY0R163B564/	AE	DJ	Ν	С	Resistor	
54	0KY0R353U100/	AD	DJ	N	С	Resistor	[F
55	0KY0R353U330/	AD	DJ	N	С	Resistor	ĮŔ!
	0KY0R353U181/	AD	DJ	N	Č	Resistor	[R
- 00	0KY0R353U221/	AD	DJ	N	C	Resistor (100V series)	[R26,
57	0KY0R353U241/	AD	DJ	N	C	Resistor (200V series)	
		_			_		
58	0KY0R353U271/	AD	DJ	N	С	Resistor (100V series)	[F
	0KY0R353U221/	AD	DJ	N	С	Resistor (200V series)	[R34,
59	0KY0R353U431/	AD	DJ	Ν	С	Resistor	[R9
60	0KY0R353U821/	AD	DJ	N	С	Resistor	[R9
61	0KY0R353U102/	AD	DJ	Ν	С	Resistor	[RS
	0KY0R353U122/	AD	DJ	N	C	Resistor	ĪR!
	0KY0R353U392/	AD	DJ	N	C	Resistor	IR <sup>2</sup>
		_			_		
	0KY0R353U153/	AD	DJ	N	С	Resistor	[R′
	0KY0R353U223/	AD	DJ	N	С	Resistor	[R35
66	0KY0R362U100/	AG	DX	Ν	С	Resistor	[F
67	0KY0R451C220/	AE	DS	N	С	Resistor (100V series)	[R9
67	0KY0R452D100/	AF	DS	N	С	Resistor (200V series)	[R9
68	0KY0R451C101/	AE	DS	N	Č	Resistor	Į. to
	0KY0R451C121/	AE	DS	N	C	Resistor	
	0KY0R451C222/	AF	DS	N	С	Resistor	[R:
	0KY0R452D100/	AF	DS	N	С	Resistor	[F
72	0KY0R452D101/	AF	DS	N	С	Resistor	[R145,
70	0KY0R452D153/	AF	DS	Ν	С	Resistor (100V series)	[R11
73	0KY0R452D473/	AF	DS	N	С	Resistor (200V series)	[R11
	0KY0R452D273/	AF	DS	N	C	Resistor (100V series)	[R18
74	0KY0R452D683/					Resistor (200V series)	[R18
		AF	DS	N	С		
75	0KY0R452D563/	AF	DS	N	С	Resistor (100V series)	[F
	0KY0R452D473/	AF	DS	N	С	Resistor (200V series)	[R13,16
76	0KY0R516FR01/	AR	EQ	N	С	Resistor	[R:
	0KY0R516FR05/	AR	EQ	Ν	С	Resistor (100V series)	[R25,139,
77	0KY0R516FR15/	AR	EQ	N	С	Resistor (200V series)	ŢF
	0KY0R516FR05/	AR	EQ	N	C	Resistor (200V series)	[R139,
70	0KY0R522F100/					Resistor	[1(103,
_		AU	EZ	N	С		
	0KY0R854E102/	AG	DS	N	В	Variable resistor	[VR101,
	0KY0C151E101/	AD	DJ	N	С	Capacitor	[C
81	0KY0C151M221/	AE	DS	N	С	Capacitor	[C
82	0KY0C171E331/	AD	DJ	N	С	Capacitor	[0
	0KY0C1A9R221/	AG	DS	N	С	Capacitor (100V series)	[C10,
83	0KY0C1A8S470/	AG	DS	N	C	Capacitor (200V series)	[0.0,
00	0KY0C1A9R221/	AG	DS	N	C	Capacitor (200V series)	IC.
0.4		_			_	Capacitor	
_	0KY0C1A9R331/	AG	DX	N	С		[C
85	0KY0C1A9R471/	AG	DX	N	С	Capacitor (100V series)	[(
06	0KY0C1H6Q222/	AH	DX	Ν	С	Capacitor (100V series)	[C12
86	0KY0C1H6Q472/	AK	EB	N	С	Capacitor (200V series)	[C12,C13,C61,0
87	0KY0C1H6Q472/	AK	EB	N	C	Capacitor (100V series)	[C
	0KY0C245Q224/	AN	EG	N	C	Capacitor	[C
	0KY0C251E102/	AE	DJ	N	C	Capacitor	[C23,109,121,
	0KY0C251E102/	_				Capacitor	[C23, 109, 121,
		AE	DJ	N	С		
_	0KY0C251E103/	AE	DJ	N	С	Capacitor	[C15,24,107,108,118,
	0KY0C251E223/	AE	DS	N	С	Capacitor	[0
	0KY0C251E333/	AE	DS	N	С	Capacitor	[(
94	0KY0C251E473/	AF	DS	Ν	С	Capacitor	
	0KY0C251E104/	AG	DS	N	С	Capacitor	[C105,
	0KY0C2X0Q104/	AR	EQ	N	Č	Capacitor	[0.00,
	0KY0C364E4R7/	AH	DX	N	C	Capacitor	[C18,115,
	0KY0C374D820/						
		AH	DX	N	С	Capacitor	[0
	0KY0C374D331/	AN	EG	N	С	Capacitor	O]
	0KY0C375B471/	AN	EG	N	С	Capacitor	[C113,
	0KY0C3L2A332/	AT	EZ	N	С	Capacitor	[C119,
102	0KY0C3L2B152/	AS	EQ	N	С	Capacitor	[C
	0KY0C3L3L102/	BD	GJ	N	C	Capacitor (100V series)	j.
103	0KY0C3J5M181/	BC	GD	N	C	Capacitor (200V series)	[C8
104	0KY0C3L7D102/	AR	EQ	N	С	Capacitor (2007 Series)	[C102,103,
104							
105	0KY0L100C0022	BA	FX	N	С	Coil (100V series)	[L
. 55	0KY0L100C002/	BC	GJ	N	С	Coil (200V series)	[L
100	0KY0L100E0112	BB	GD	N	С	Coil (100V series)	[L
106	0KY0L100E011/	BD	GN	N	Č	Coil (200V series)	įL
	0KY0L107R202/	AZ	FX	N	C	Coil (100V series)	
107	0KY0L107H202/	+				1	
		AX	FG	N	С	Coil (200V series)	
108	0KY0L200Q0362	BE	GN	N	В	Transformer (100V series)	
100	0KY0L200Q036/	BF	GN	Ν	В	Transformer (200V series)	
					D	Bead filter (100V series)	IDEAE4 404 400
109	0KY0L551A001/	AE	DS	N	В	beau liller (1007 Series)	[BEA51,101,102,

26 Low voltage power supply unit

	NO.	PARTS CODE	PRICE	RANK	NEW	PART	DESCRIPTION	
	_		Ex.	Ja.	MARK	RANK		
	110	0KY0L551A002/	AF	DS	Ν	В	Bead filter	[BEA3]
		0KY0L552A001/	AE	DS	Ν	В	Bead filter	[BEA4]
$\triangle$	112	0KY0K716A4R0/	AK	DX	Ν	Α	Fuse (100V series)	[F101,102]
$\triangle$	112	0KY0K717A4R0/	AK	DX	N	Α	Fuse (200V series)	[F101,102]
	113	0KY0K716A5R0/	AK	DX	N	Α	Fuse (100V series)	[F3]
$\triangle$	113	0KY0K718A4R0/	AM	EG	N	Α	Fuse (200V series)	[F3]
$\triangle$		0KY0K722A020/	AT	EZ	Ν	Α	Fuse (AC250V 20A)(100V)	[F1,2]
$\triangle$	114	0KY0K704A020/	AQ	EQ	Ν	Α	Fuse (AC250V 20A)(120V)	[F1]
$\triangle$		0KY0K723A010/	AR	EQ	Ν	Α	Fuse (200V series)	[F1,2]
	115	0KY0K309A024/	AZ	FQ	N	В	Relay	[RL1]
	116	0KY0K202B003/	AG	DX	N	С	Connector	[CN102]
	117	0KY0K219B003/	AS	EZ	Ν	С	Connector	[CN1]
		0KY0K219B004/	AU	EZ	N	С	Connector	[CN3]
	119	0KY0K219B006/	AX	FG	N	С	Connector	[CN2]
	120	0KY0K235B002/	AN	EG	N	С	Connector	[CN6]
	121	0KY0K236B026/	AR	EQ	N	С	Connector	[CN101]
	122	0KY0K252P004/	AH	DX	N	С	Frame grand terminal	[FG1,2,3]
	123	0KY0L313R001/	AH	DX	N	С	Coil	[L105,106]
	124	0KY0K251A002/	AG	DX	N	С	Connector (200V series)	[CN4]
	125	0KY0L112R502/	BB	GD	N	С	Coil (200V series)	[L1]
	126	0KY0L114R101/	AX	FG	N	С	Coil (200V series)	[L2,3,4]
		(Unit)						
$\triangle$		RDEN-0002QSZZ	BX	TF	N	Е	Low voltage power supply unit (100V)	
$\triangle$	901	RDEN-0002QS11	BX	RR	N	Е	Low voltage power supply unit (120V)	
$\triangle$		RDEN-0002QS12	BY	TF	N	Е	Low voltage power supply unit (200V series)	

27 ERDH-Operation PWB

NO.	PARTS CODE		RANK		PART	DESCRIPTION
110.	17000DE	Ex.	Ja.	MARK	RANK	BESONII HON
1	DHAi-0116QSZZ	AC	DJ	N	С	Panel ERDH harness
2	QCNCW0021QSZZ	AF	DS	N	С	Connector (52793-1590) [CN1]
3	QSW-P0008QSZZ	AC	DJ	N	В	Switch (EVQ-23G-04K) [K1~3,5,6,8,9]
4	VHPMPG3864K-J	AC	DJ		В	LED (Green) (MPG3864K-J) [D1~5,7,8,9,13,14,15]
	(Unit)					
901	CPWBF0025QS51	AZ	FQ	N	Е	ERDH-operation PWB

28 Delivery interface PWB

NO.	PARTS CODE	PRICE Ex.	RANK Ja.	NEW MARK		DESCRIPTION	
1	DHAi-0117QSZZ	AF	DS	N	С	Tray unit harness	
2	QCNCM2401SC0F	AB	DJ		С	Connector (6pin)(AR-161)	[CN3]
3	QCNCM7014SC0C	AA	DD		С	Connector (3pin)(AR-161)	[CN4]
4	QCNCM7014SC0F	AB	DD		С	Connector (6pin)	[CN2]
5	QCNCW1124LC1F	AC	DJ		С	Connector (16pin)	[CN1]
	VCEAGU1VW476M	AB	DD		С	Capacitor (35WV 47μF)	[C3]
7	VCKYPU1HB102K	AA	DD		С	Capacitor (50WV 0.001µF)	[C1,2]
	VHiSTA401A/-1	AP	EQ		В	IC (STA401A)(AR-S160/AR-160)	[IC2]
8	VHiSTA401A/-1	AP	EQ		В	IC (STA401A)(AR-161)	[IC1,2]
9	VHPGP1S53V/-1	AE	DS		В	Photo transistor (GP1S53V) [	ISO1,2]
10	VHViCPN38//-1	AF	DS		В	IC protector (ICPN38)(AR-S160/AR-160)	[F2]
10	VHViCPN38//-1	AF	DS		В	IC protector (ICPN38)(AR-161)	[F1,2]
11	VRD-HT2EY151J	AA	DD		С	Resistor (1/4W 150Ω ±5%)(AR-S160/AR-160)	[R1,2]
"	VRD-HT2EY151J	AA	DD		С	Resistor (1/4W 150Ω ±5%)(AR-161)	[R1,2,3]
12	VRD-HT2EY222J	AA	DD		O	Resistor (1/4W 2.2KΩ ±5%)(AR-S160/AR-160)	[R8~11]
12	VRD-HT2EY222J	AA	DD		С	Resistor (1/4W 2.2KΩ ±5%)(AR-161)	[R4~11]
	(Unit)						
901	CPWBF0018QS51	AY	FQ	Ν	Е	Delivery interface PWB (AR-S160/AR-160)	
901	CPWBF0018QS52	AY	FQ	Ν	Е	Delivery interface PWB (AR-161)	



# 29 Dry heater PWB Japan only)

	NO.	PARTS CODE	PRICE Ex.	RANK Ja.		PART RANK	DESCRIPTION
ı	1	DHAi-0125QSZZ	AE	DS	N	С	DH interface PWB harness
Ī	2	QCNCM0672FCZZ	AB	DD		С	Connector (B2P3-VH White)
	3	QCNCM1119LC0D	AC	DJ	Ν	С	Connector (4pin)
	4	QCNCW0690FCZZ	AB	DD		С	Connector (B02P-XL)
	5	QCNCW0843FCZZ	AC	DJ		С	Connector (B2P3-VH Red)
$\Lambda$	6	QFS-A3089KCZZ	AC	DD		Α	Fuse (1A/125V)
L		QFSHB0001GCZZ	AB	DJ		С	Fuse holder
L	8	RRLYD3222QCZZ	AL	EB		В	Relay (AJQ1342)
L	9	VHDDSS133//-1	AA	DD		В	Diode (DSS133)
		(Unit)					
L	901	CPWBF0023QS51	BA	FX	Ν	Е	Dry heater PWB (Japan only)
	-			-			
	-			-			

### 30 Shifter HP sensor PWB AR-161)

1 I	D.I.A.: 0000000		Ja.	MARK	PART RANK	DESCRIPTION			
2	DHA 1 - 009 / QSZZ	AE	DJ	N	С	Shifter HP sensor harness			
	DHAi-0097QSZZ LBNDJ0037FCZ1	AA	DJ		С	Wire hand (T18S)			
3 '	VCKYPU1HB102K	AA	DD		Č	Capacitor (50WV 0.001µF)			
4 '	VHPGP1S53V/-1	AE	DS		В	Capacitor (50WV 0.001µF) Photo transistor (GP1S53V)			
	(Unit)								
901	(Unit) CPWBF1177FC68	AP	EQ	N	Е	Shifter HP sensor PWB (AR-161)			
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CARMP0011QS01	572 240 0343	1- 12 1- 13	AD	DJ	N N	C
CBOX-0002YS52	572 307 0411	8- 1	BE	GN	N	E
CBŌX-0002YS54	572 307 0412	8- 1	BF	GN	N	E
CBOX-0003YS52 CBTN-0016QS01	572 307 0414 572 170 0453	8- 4	AZ	FQ EG	N	E
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CBTN-0022QS01	572 170 0455	2- 8	AF	DS	N	С
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CPLTM0028QS01 CPLTM0029QS01	572 221 6940 572 221 6941	5- 13 5- 9	AH	DX DX		С
CPLTM0023Q301	572 221 7033	10- 18	ВА	FX	N	C
CPLTM0055QS01	572 221 7034	13- 25	AF	DS	N	C
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CPWBF1177FC64	572 684 3304	14- 29	AP	EQ	N	Е
//	572 684 3304	20-901	AP	EQ	N	E
CPWBF1177FC65	572 684 3305 572 684 3305	11- 34 22-901	AP AP	EQ EQ	N N	E
CPWBF1177FC66	572 684 3306	11- 24	AP	EQ	N	E
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CPWBF1177FC67	572 684 3307	11- 40	AP	EQ	N	E
// CDWRE1177EC69	572 684 3307	24-901	AP	EQ	N	E
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//	572 684 3316	12- 37 18-901	CD	UD	N	E
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	ORDER CODE		Ex.	Ja.		
CPWBX0021QS53	572 684 3318	12- 37	CD	UD	N	Е
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CPWBX0021QS54	572 684 3319	12- 37	CD	UD	N	Е
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DHAi-0090QSZZ	572 542 1433	6- 45	AF	DS	N	С
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		21- 1	AF	DS	N	С
DHAi-0097QSZZ	572 542 1439	30- 1	AE	DJ	N	С
DHAi-0100QSZZ	572 542 1441	20- 1	AG	DX	N	С
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DHA i -0106QSZZ	572 542 1445	6- 24	AL	EB	N	С
DHAi-0108QSZZ	572 542 1447	6- 25	AK	DX	N	С
DHAi-0110QSZZ	572 542 1449	10- 3	AP	EQ	N	С
DHA i -0112QSZZ	572 542 1450	6- 8	AP	EQ	N	С
DHAi-0114QSZZ	572 542 1452	10- 5	AC	DJ	N	С
DHAi-0115QSZZ	572 542 1453	2- 21	AF	DS	N	С
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		27- 1	AC	DJ	N	С
DHAi-0117QSZZ	572 542 1455	28- 1	AF	DS	N	С
DHAi-0120QSZZ	572 542 1456	4- 9	AG	DS	N	С
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DHAi-0140QSZZ	572 542 1491	12- 50	AP	EQ	Ν	С
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DUNTW0037QS12	572 685 1825	9-901	BW	RR	N	E
DUNTW0037QSZZ	572 685 1823	9-901	BX	TF	N	Ē
DW i R-0466CSZZ	572 427 1070				IN	
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GCAB-0013QSZZ GCAB-0014QSZA GCAB-0014QSZZ GCAB-0015QSZA	572 107 1763 572 107 1792 572 107 1764 572 107 1793	1- 18 1- 15 1- 15 1- 23	BC BA AY AX	GD FX FQ FQ	N N N	D D D
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GCAB-0013QSZZ GCAB-0014QSZA GCAB-0014QSZZ GCAB-0015QSZA GCAB-0015QSZZ GCAB-0017QSZA	572     107     1763       572     107     1792       572     107     1764       572     107     1793       572     107     1765       572     107     1789	1- 18 1- 15 1- 15 1- 23 1- 23 2- 5	BC BA AY AX AV AW	GD FX FQ FQ FG FG	N N N N N	D D D
GCAB-0013QSZZ GCAB-0014QSZA GCAB-0014QSZZ GCAB-0015QSZA GCAB-0015QSZA GCAB-0017QSZZ GCAB-0017QSZA	572 107 1763 572 107 1792 572 107 1764 572 107 1793 572 107 1765 572 107 1789 572 107 1779	1- 18 1- 15 1- 15 1- 23 1- 23	BC BA AY AX AV	GD FX FQ FQ FG	N N N N	D D D
GCAB-0013QSZZ GCAB-0014QSZA GCAB-0014QSZZ GCAB-0015QSZA GCAB-0015QSZZ GCAB-0017QSZA	572     107     1763       572     107     1792       572     107     1764       572     107     1793       572     107     1765       572     107     1789	1- 18 1- 15 1- 15 1- 23 1- 23 2- 5	BC BA AY AX AV AW	GD FX FQ FQ FG FG	N N N N N	D D D D
GCAB-0013QSZZ GCAB-0014QSZA GCAB-0014QSZZ GCAB-0015QSZA GCAB-0015QSZA GCAB-0017QSZZ GCAB-0017QSZA	572 107 1763 572 107 1792 572 107 1764 572 107 1793 572 107 1765 572 107 1789 572 107 1779	1- 18 1- 15 1- 15 1- 23 1- 23 2- 5 2- 5	BC BA AY AX AV AW	GD FX FQ FQ FG FG	N N N N N	D D D D
GCAB-0013QSZZ GCAB-0014QSZA GCAB-0015QSZA GCAB-0015QSZA GCAB-0015QSZZ GCAB-0017QSZZ GCAB-0017QSZZ GCASP0003QSZZ GCOVH0010QSZZ	572         107         1763           572         107         1792           572         107         1764           572         107         1793           572         107         1765           572         107         1789           572         107         1779           572         108         1267           572         110         1079	1- 18 1- 15 1- 15 1- 23 1- 23 2- 5 2- 5 16- 18 1- 1	BC BA AY AX AV AW AV AZ BE	GD FX FQ FQ FG FG FG FG	N N N N N N N	D D D D D
GCAB-0013QSZZ GCAB-0014QSZA GCAB-0014QSZZ GCAB-0015QSZA GCAB-0017QSZZ GCAB-0017QSZZ GCAS-0017QSZZ GCASP0003QSZZ GCOVH0010QSZZ	572         107         1763           572         107         1792           572         107         1764           572         107         1793           572         107         1765           572         107         1789           572         107         1779           572         108         1267           572         110         1079           572         110         1104	1- 18 1- 15 1- 15 1- 23 1- 23 2- 5 2- 5 16- 18 1- 1 1- 22	BC BA AY AX AV AW AV AZ BE AQ	GD FX FQ FQ FG FG FG GN EQ	N N N N N N N	D D D D D
GCAB-0013QSZZ GCAB-0014QSZA GCAB-0014QSZZ GCAB-0015QSZZ GCAB-0017QSZZ GCAB-0017QSZZ GCAS-0017QSZZ GCAS-0017QSZZ GCOVH0010QSZZ GCŌVH0011QSZZ GCŌVH0011QSZZ	572         107         1763           572         107         1792           572         107         1764           572         107         1793           572         107         1765           572         107         1789           572         107         1779           572         108         1267           572         110         1079           572         110         104           572         110         1080	1- 18 1- 15 1- 15 1- 23 1- 23 2- 5 2- 5 16- 18 1- 1 1- 22 1- 22	BC BA AY AX AV AW AV AZ BE AQ	GD FX FQ FG FG FG FQ GN EQ	N N N N N N N N N	D D D D D D D
GCAB-0013QSZZ GCAB-0014QSZA GCAB-0015QSZA GCAB-0015QSZA GCAB-0017QSZZ GCAB-0017QSZZ GCASP0003QSZZ GCŌVH0011QSZZ GCŌVH0011QSZA GCŌVH0011QSZZ GCŌVH0011QSZZ	572 107 1763 572 107 1792 572 107 1764 572 107 1765 572 107 1765 572 107 1769 572 107 1779 572 108 1267 572 110 1079 572 110 1080 572 110 1080 572 110 1011	1- 18 1- 15 1- 15 1- 23 1- 23 2- 5 2- 5 16- 18 1- 1 1- 22 1- 22 12- 2	BC BA AY AX AV AW AZ BE AQ AP	GD FX FQ FG FG FG FQ EQ EQ	N N N N N N N N N	D D D D D D
GCAB-0013QSZZ GCAB-0014QSZA GCAB-0014QSZZ GCAB-0015QSZZ GCAB-0017QSZZ GCAB-0017QSZZ GCAS-0017QSZZ GCAS-0017QSZZ GCOVH0010QSZZ GCŌVH0011QSZZ GCŌVH0011QSZZ	572         107         1763           572         107         1792           572         107         1764           572         107         1793           572         107         1765           572         107         1789           572         107         1779           572         108         1267           572         110         1079           572         110         104           572         110         1080	1- 18 1- 15 1- 15 1- 23 1- 23 2- 5 2- 5 16- 18 1- 1 1- 22 1- 22	BC BA AY AX AV AW AV AZ BE AQ	GD FX FQ FG FG FG FQ GN EQ	N N N N N N N N N	D D D D D D
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GCAB-0013QSZZ GCAB-0014QSZA GCAB-0015QSZA GCAB-0015QSZZ GCAB-0017QSZZ GCAB-0017QSZZ GCAB-0017QSZZ GCASP0003QSZZ GCŌVH0011QSZZ GCŌVH0011QSZZ GCŌVH0011QSZZ GCŌVH0011QSZZ GCŌVH0011QSZZ GCŌVH0011QSZZ GCŌVH0011QSZZ	572         107         1763           572         107         1792           572         107         1764           572         107         1765           572         107         1769           572         107         1779           572         108         1267           572         110         1079           572         110         1104           572         110         1080           572         110         1094           572         110         1094           572         110         1096	1- 18 1- 15 1- 15 1- 23 1- 23 2- 5 2- 5 16- 18 1- 1 1- 22 1- 22 12- 2 12- 1 12- 1	BC BA AY AX AV AW AV AZ BE AQ AP AT AS AS	GD FX FQ FQ FG FG FG GN EQ EQ EQ EQ	N N N N N N N N N N N N N N N N N N N	DDDDDDDDDDDCCCCCCCCCCCCCCCCCCCCCCCCCCC
GCAB-0013QSZZ GCAB-0014QSZA GCAB-0015QSZA GCAB-0015QSZZ GCAB-0015QSZZ GCAB-0017QSZZ GCAB-0017QSZZ GCASP0003QSZZ GCŌVH0010QSZZ GCŌVH0011QSZZ GCŌVH0011QSZZ GCŌVH0012QSZA GCŌVH0012QSZA GCŌVH0012QSZZ GCŌVH0014QSZZ GCŌVH0014QSZZ GCŌVH0014QSZZ GCŌVH0015QSZZ	572         107         1763           572         107         1792           572         107         1764           572         107         1765           572         107         1789           572         107         1779           572         108         1267           572         110         1079           572         110         104           572         110         1080           572         110         109           572         110         1094           572         110         1096           572         110         1097	1- 18 1- 15 1- 15 1- 23 1- 23 2- 5 2- 5 16- 18 1- 1 1- 22 1- 22 12- 2 12- 2 12- 1 12- 1	BC BA AY AX AV AW AV AZ BE AQ AP AT AS AS AR AG	GD FX FQ FG FG FG GN EQ EQ EQ EZ	N N N N N N N N N N N N N N N N N N N	DDDDDDDDDDCCCCCCCCCCCCCCCCCCCCCCCCCCCC
GCAB-0013QSZZ GCAB-0014QSZA GCAB-0015QSZA GCAB-0015QSZZ GCAB-0015QSZZ GCAB-0017QSZZ GCAB-0017QSZZ GCASP0003QSZZ GCŌVH0010QSZZ GCŌVH0011QSZZ GCŌVH0011QSZZ GCŌVH0012QSZA GCŌVH0012QSZA GCŌVH0012QSZZ GCŌVH0014QSZZ GCŌVH0015QSZZ GCŌVH0015QSZZ GCŌVH0015QSZZ	572         107         1763           572         107         1792           572         107         1764           572         107         1765           572         107         1776           572         107         1779           572         108         1267           572         110         1079           572         110         104           572         110         1080           572         110         1094           572         110         1096           572         110         1097           572         110         1098           572         110         1098	1- 18 1- 15 1- 15 1- 23 1- 23 2- 5 2- 5 16- 18 1- 1 1- 22 12- 2 12- 2 12- 2 12- 1 12- 1 12- 1 2- 1	BC BA AY AX AV AW AV AZ BE AQ AP AT AS AS AR AG AH	GD FX FQ FG FG FG GN EQ EQ EZ EQ EQ DX DX	N N N N N N N N N N N N N N N N N N N	DDDDDDDDDDDDCCCCCCCDDDDDDDDDDDDDDDDDDD
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GDŌR-0001QSZA 572 113 0044 3	10.	Ex.	Ja.		P/R
		AW	FG	N	D
GDOR-0001QSZZ   572 113 0043   3	- 1 - 1	AW	FG	N	D
	- 11	AX	FG	N	D
	- 11	AW	FG	N	D
GFTA-0002QSZZ 572 117 0098 1		AD	DJ	N	D
GFTA-0005QSZZ 572 117 0094 11		AC	DJ	N	С
	- 31	AE	DS	N	С
GLEGG0064FCZZ 572 123 0072 11	- 41	AC	DJ		С
HPNLH0004QSZ1 572 158 0605 2	- 3	AV	FG	N	D
HPNLH0004QSZ2 572 158 0610 2		AV	FG	N	D
HPNLH0004QSZ3 572 158 0611 2	_	AV	FG	N	D
HPNLH0004QSZ4 572 158 0612 2	- 3	ΑV	FG	Ν	D
HPNLH0004QSZ5 572 158 0613 2		AV	FG	N	D
HPNLH0004QSZZ 572 158 0600 2		AV	FG	N	D
HPNLH0006QSZ1 572 158 0606 2 HPNLH0006QSZ2 572 158 0614 2		AM AM	EG EG	N N	D D
HPNLH0006QSZZ 572 158 0601 2		AM	EG	N	D
[J]		7 (14)		.,	
JBTN-0018QSZZ 572 170 0446 2	- 6	AE	DJ	N	С
	- 11	AC	DJ	N	С
	- 16	AG	DX	N	С
JBTN-0026QSZZ 572 170 0459 2		AE	DJ	N	С
JBTN-0027QSZZ 572 170 0460 2 JBTN-0029QSZZ 572 170 0449 2		AD AE	DJ	N N	C
JBTN-0029QSZZ 5/2 1/0 0449 2 JBTN-0030QSZZ 572 170 0461 2		AE	DS DJ	N	C
JKNBZ0003QSZZ 572 174 0327 6		AD	DJ	N	C
[L]					
	- 15	AA	DJ		С
// 572 201 0118 4		AA	DJ		С
LBNDJ0037FCZ1 572 201 0119 20		AA	DJ		С
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// 572 201 0119 23		AA	DJ		<u>C</u>
// 572 201 0119 24		AA	DJ		C
" 572 201 0119 30	- 2	AA	DJ		С
LBNDJ2004SCZZ 541 201 1003 12	- 20	AA	DD		С
	- 18	AD	DJ	N	C
LBŌSZ1031FCZZ 572 202 0270 11 LBŌSZ1508FCZZ 572 202 0378 6		AC	DJ		С
LBOSZ1508FCZZ 572 202 0378 6		AG AG	DX		C
LBŌSZ1510FCZZ 572 202 0373 13		AF	DX		C
LBSHZ0001QSZZ 572 204 0409 9		AK	DX	N	С
	- 10	AC	DJ		С
	- 33	AF	DS	N	C
LFiX-0005QSZZ 572 211 0677 4 LFiX-0007QSZ1 572 211 0693 7		AC AE	DJ	N	C
LFiX-0007QSZZ 572 211 0692 7		AE	DJ	N	C
LFiX-0284FCZZ 572 211 0176 5		AC	DD		C
	- 10	ΑT	ΕZ	N	С
	- 40	AT	EZ	N	С
	- 33	AX	FG	N	C
	- 33 - 14	AV	FG EQ	N N	C
	- 14 - 16	AQ	EQ	N	C
LFRM-0024QSZZ 572 213 1908 6	- 46	BC	GD	N	C
	- 23	AM	EG	N	С
	- 25	AS	EZ	N	С
	- 39	AV	FG	N	С
	- 21 - 42	AN	EG DJ	N N	C
	- 42 - 14	AA	DD	IN	C
LHLDW1226FCZZ 572 214 1450 16		AB	DJ		C
	- 10	AB	DJ		С
	- 28	AD	DJ	N	С
LHLDZ0002YSZZ 572 214 1909 8 LHLDZ0013QSZZ 572 214 1869 5	- 26 - 5	AC AD	DJ	N	C
LHLDZ0013QSZZ 572 214 1880 11		AD	DJ		C
LHLDZ0030QSZZ 572 214 1910 15		AD	DJ	N	C
LHLDZ0031QSZZ 572 214 1914 15	- 13	AK	EB	N	C
	- 10	AD	DJ	N	С
	- 15	AF	DS	N	С
	- 14 - 15	AF AH	DS DX	N N	C
	- 15 - 21	AE	DJ	N	C
	- 16	AS	EQ	N	C
LHLDZ0043QSZZ 572 214 1898 4	- 25	AE	DJ	N	C
LHLDZ0044QSZZ 572 214 1899 5	- 1	AP	EQ	N	С
LHLDZ0045QSZZ   572 214 1907   7	- 12	AD	DJ	N	С
LHLDZ1239FCZZ 572 214 1461 4	- 4 - 32	AE AA	DS DD		C

DPINSO 301FCZZ   572 218 0426	DARTO CODE	JAPAN ONLY	NO	PRIC	E R.	NIENA	D/D
LPLTM0001YSZZ 572 221 7078	PARTS CODE		NO.	Ex.	Ja.	NEW	P/R
LPLTM0002YSZZ 572 221 7079				AD			С
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LPLTM005308ZZ 572 221 7020							_
LPLTM00690S3Z							
LPLTM00630SZ							
IPLTM00640SZZ							
LPLTM00650SZ							
LPLTM00660SZZ	LPLTM0065QSZZ						
LPLTM00680SZZ	LPLTM0066QSZZ	572 221 7049	11- 10	AF	DS	N	
TPLTM00700SZZ	LPLTM0067QSZZ	572 221 7050	6- 22	AC	DJ	N	С
LPLTM00820SZ			3- 12	ΑE	DJ	N	С
LPLTM00910SZZ				AD			
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LPLTM00920SZZ							
LPLTM00990SZZ							
LPLTM0100SZZ							
LPLTM01010SZZ							
LPLTM2642FCZZ							
LPLTP00510SZZ						IN	
LPLTP0056QSZZ 572 221 7072 13- 3 AE DJ N C LPLTP0060QSZZ 572 221 7094 9- 41 AK DX N C LPLTZ0049QSZZ 572 221 7093 15- 15 AG DS N C LRALM0006QSZZ 572 221 7083 15- 15 AG DS N C LRALM0006QSZZ 572 223 0232 4- 47 AG DS N C LRALM0007QSZZ 572 223 0233 3- 2 AL EB N C LRALP0004QSZZ 572 223 0235 3- 2 AL EB N C LRALP0005QSZA 572 223 0237 11- 27 AQ EQ N C LRALP0005QSZ 572 223 0237 11- 27 AQ EQ N C LRALP0005QSZ 572 223 0237 11- 27 AN EQ N C LRALP0005QSZZ 572 223 0234 11- 27 AN EQ N C LSOU-0009QSZZ 572 226 0581 13- 45 AV FG N D LSOU-0011QSZZ 572 226 0582 13- 48 AU FG N D LSOU-0011QSZZ 572 226 0582 13- 48 AU FG N D LSOU-0011QSZZ 572 226 0583 13- 47 AL EB N D LSOU-0013QSZA 572 226 0592 12- 3 BB GD N D LSOU-0013QSZA 572 226 0593 12- 3 BB FX N D LSOU-0013QSZZ 572 226 0593 12- 3 BB FX N D LSOU-0013QSZZ 572 226 0593 12- 3 BB FX N D LSTPP0003QSZZ 572 230 0496 14- 54 AE DJ N C LSTPP0116FCZZ 572 230 0495 6- 20 AC DJ N C LSTPP0116FCZZ 572 230 0692 16- 17 AB DD C LSTPP0116FCZZ 572 230 0062 16- 17 AB DD C LX-BZ0013QSZI 572 970 1917 4- 26 AB DD C LX-BZ0013QSZI 572 970 1917 4- 26 AB DD C LX-BZ0013QSZI 572 970 1957 17- 9 AF DS N C LX-BZ0015QSZZ 572 970 1957 17- 9 AF DS N C LX-BZ0015QSZZ 572 970 1957 17- 9 AF DS N C LX-BZ003SFCZZ 572 970 0245 5- 8 AA DD C LX-BZ0324FCZZ 572 970 0245 5- 8 AA DD C LX-BZ0335FCZZ 572 970 0245 5- 8 AA DD C LX-BZ0334FCZZ 572 990 0487 7- 14 AB DD N C LX-WZ0313FCZZ 572 990 0487 7- 14 AB DD N C LX-WZ0313FCZZ 572 990 0487 7- 14 AB DD N C LX-WZ0313FCZZ 572 990 0487 7- 14 AB DD N C LX-WZ0313FCZZ 572 990 0487 1- 13 AB DD N C LX-WZ0314FCZZ 572 990 0487 1- 13 AB DD N C LX-WZ0314FCZZ 572 990 0487 1- 13 AB DD N C LX-WZ0314FCZZ 572 990 0487 1- 14 AB DD N C LX-WZ0314FCZZ 572 990 0487 1- 14 AB DD N C LX-WZ0314FCZZ 572 990 0487 1- 14 AB DD N C LX-WZ0314FCZZ 572 990 0487 1- 14 AB DD N C LX-WZ0314FCZZ 572 990 0487 1- 14 AB DD N C MARMP0005QSZZ 572 240 0354 13- 20 AB DD N C MARMP0007QSZZ 572 248 1154 9- 36 AF DS N C MLEVP0019QSZZ 572 248 1159 9- 33 AF DS N C MLEVP002QSZZ 572 248 1150 9- 33 AF DS N C MLEVP002QSQSZZ 572 248 1150 9- 35						N	
LPLTP0060QSZZ 572 221 7094							
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LX-BZ0335FCZZ 572 970 0245 5- 8 AA DD C LX-RZ0001QSZZ 572 990 0487 7- 14 AB DD N C LX-WZ0002QSZZ 572 990 0486 10- 13 AB DD N C LX-WZ0119FCZZ 572 990 0020 4- 35 AA DD C LX-WZ0313FCZZ 572 990 0227 9- 48 AA DD C LX-WZ0313FCZZ 572 990 0230 10- 37 AA DD C LX-WZ0314FCZZ 572 990 0230 10- 37 AA DD C LX-WZ0329FCZZ 572 990 0410 7- 13 AB DD N C LX-WZ0329FCZZ 572 990 0410 7- 13 AB DD C LX-WZ0329FCZZ 572 240 0348 13- 51 AE DJ N C MARMP0005QSZZ 572 240 0354 13- 20 AD DJ N C MARMP0007QSZZ 572 240 0354 13- 20 AD DJ N C MARMP0008QSZZ 572 240 0350 13- 2 AH DX N C MARMP0009QSZZ 572 240 0350 13- 2 AH DX N C MARMP0001QSZZ 572 241 0122 13- 22 AF DS N C MCAMP0001QSZZ 572 241 0122 13- 22 AF DS N C MCAMP0001QSZZ 572 248 1154 9- 36 AF DS N C MLEVP0017QSZZ 572 248 1155 9- 33 AF DS N C MLEVP0019QSZZ 572 248 1155 9- 33 AF DS N C MLEVP0019QSZZ 572 248 1150 14- 25 AE DJ N C MLEVP002QSZZ 572 248 1150 11- 5 AE DJ N C MLEVP002QSZZ 572 248 1150 11- 5 AE DJ N C MLEVP002QSZZ 572 248 1150 11- 5 AE DJ N C MLEVP002QSZZ 572 248 1151 11- 5 AE DJ N C MLEVP002QSZZ 572 248 1151 11- 5 AE DJ N C MLEVP002QSZZ 572 248 1151 11- 5 AE DJ N C MLEVP002QSZZ 572 248 1151 11- 5 AE DJ N C MLEVP002QSZZ 572 248 1151 11- 5 AE DJ N C MLEVP002QSZZ 572 248 1151 11- 5 AE DJ N C MLEVP002QSZZ 572 248 1151 11- 5 AE DJ N C MLEVP002QSZZ 572 248 1151 11- 5 AE DJ N C MLEVP002QSZZ 572 248 1151 11- 5 AE DJ N C MLEVP002QSZZ 572 248 1151 11- 5 AE DJ N C MLEVP002QSZZ 572 248 1151 11- 5 AE DJ N C MLEVP002QSZZ 572 248 1151 11- 5 AE DJ N C MLEVP002QSZZ 572 248 1151 11- 25 AE DS N C MLEVP002QSZZ 572 248 1151 11- 25 AE DS N C MLEVP002QSZZ 572 248 1151 11- 25 AE DS N C MLEVP002QSZZ 572 248 1151 11- 25 AE DS N C MLEVP002QSZZ 572 248 1140 11- 24 AE DS N C MLEVP002QSZZ 572 248 1140 11- 24 AE DS N C MLEVP002QSZZ 572 248 1140 11- 24 AE DS N C MLEVP002QSZZ 572 248 1140 11- 24 AE DS N C MLEVP002QSZZ 572 288 1144 14- 19 AF DS N C MLEVP002QSZZ 572 288 1145 14- 27 AF DS N C MLEVP002QSZZ 572 258 3140 4- 28 AB DJ C MSPRC004QSZZ 572 258 3129 6- 4 AA DJ C MSPRC004QSZZ 572 258 3239 3- 16 AC DJ N C							
LX-RZ0001QSZZ 572 990 0487 7- 14 AB DD N C LX-WZ0002QSZZ 572 990 0486 10- 13 AB DD N C LX-WZ0119FCZZ 572 990 0002 4- 35 AA DD C LX-WZ0313FCZZ 572 990 0227 9- 48 AA DD C LX-WZ0314FCZZ 572 990 0227 9- 48 AA DD C LX-WZ0314FCZZ 572 990 0210 10- 37 AA DD C LX-WZ0329FCZZ 572 990 0410 7- 13 AB DD C [M]  MARMP0005QSZZ 572 240 0348 13- 51 AE DJ N C MARMP0006QSZZ 572 240 0354 13- 20 AD DJ N C MARMP0007QSZZ 572 240 0354 13- 20 AD DJ N C MARMP0007QSZZ 572 240 0350 13- 2 AH DX N C MARMP0009QSZZ 572 240 0351 13- 16 AF DS N C MCAMP0001QSZZ 572 241 0122 13- 22 AF DS N C MCAMP0001QSZZ 572 241 0122 13- 22 AF DS N C MCAMP0001QSZZ 572 241 1151 14- 25 AE DJ N C MLEVP0017QSZZ 572 248 1154 9- 36 AF DS N C MLEVP0019QSZZ 572 248 1159 9- 33 AF DS N C MLEVP0019QSZZ 572 248 1150 9- 35 AD DJ N C MLEVP002QSZZ 572 248 1140 9- 35 AD DJ N C MLEVP002QSZZ 572 248 1140 9- 35 AD DJ N C MLEVP002QSZZ 572 248 1140 9- 35 AD DJ N C MLEVP002QSZZ 572 248 1150 11- 5 AE DJ N C MLEVP002QSZZ 572 248 1151 11- 39 AD DJ N C MLEVP002QSZZ 572 248 1151 11- 32 AF DS N C MLEVP002QSZZ 572 248 1150 11- 5 AE DJ N C MLEVP002QSZZ 572 248 1151 11- 32 AF DS N C MLEVP002QSZZ 572 248 1150 11- 5 AE DJ N C MLEVP002QSZZ 572 248 1151 11- 32 AF DS N C MLEVP002QSZZ 572 248 1150 11- 5 AE DJ N C MLEVP002QSZZ 572 248 1150 11- 5 AE DJ N C MLEVP002QSZZ 572 248 1151 11- 32 AF DS N C MLEVP002QSZZ 572 248 1150 11- 5 AE DJ N C MLEVP002QSZZ 572 248 1150 11- 5 AE DJ N C MLEVP002QSZZ 572 248 1150 11- 5 AE DJ N C MLEVP002QSZZ 572 248 1150 11- 5 AE DJ N C MLEVP002QSZZ 572 248 1151 11- 32 AF DS N C MLEVP002QSZZ 572 248 1150 11- 5 AE DJ N C MLEVP002QSZZ 572 248 1150 11- 5 AE DJ N C MLEVP002QSZZ 572 248 1150 11- 5 AE DJ N C MLEVP002QSZZ 572 248 1144 11- 12- 25 AE DS N C MLEVP002QSZZ 572 248 1150 11- 5 AE DJ N C MLEVP002QSZZ 572 248 1144 14- 19 AF DS N C MLEVP002QSZZ 572 248 1144 14- 19 AF DS N C MLEVP002QSZZ 572 248 1144 14- 19 AF DS N C MLEVP002QSZZ 572 258 3140 4- 28 AB DJ C MSPRC004QSZZ 572 258 3140 4- 28 AB DJ C MSPRC004QSZZ 572 258 3140 4- 28 AB DJ C MSPRC0045QSZZ 572 258 3239 3- 16 AC DJ N C	LX-BZ0335FCZZ	572 970 0245					
LX-WZ0119FCZZ 572 990 0002 4- 35 AA DD C LX-WZ0313FCZZ 572 990 0227 9- 48 AA DD C LX-WZ0313FCZZ 572 990 0230 10- 37 AA DD C LX-WZ0329FCZZ 572 990 0410 7- 13 AB DD C LX-WZ0329FCZZ 572 990 0410 7- 13 AB DD C LX-WZ0329FCZZ 572 990 0410 7- 13 AB DD C LX-WZ0329FCZZ 572 240 0348 13- 51 AE DJ N C MARMP0006QSZZ 572 240 0354 13- 20 AD DJ N C MARMP0007QSZZ 572 240 0354 13- 19 AE DJ N C MARMP0007QSZZ 572 240 0350 13- 2 AH DX N C MARMP0009QSZZ 572 240 0350 13- 2 AH DX N C MARMP0009QSZZ 572 241 0122 13- 22 AF DS N C MCAMP0001QSZZ 572 241 0122 13- 22 AF DS N C MCAMP0001QSZZ 572 241 10121 14- 25 AE DJ N C MLEVP0017QSZZ 572 248 1154 9- 36 AF DS N C MLEVP0019QSZZ 572 248 1155 9- 33 AF DS N C MLEVP0019QSZZ 572 248 1150 11- 5 AE DJ N C MLEVP0021QSZZ 572 248 1130 11- 5 AE DJ N C MLEVP0021QSZZ 572 248 1140 11- 32 AF DS N C MLEVP0023QSZZ 572 248 1140 11- 32 AF DS N C MLEVP0023QSZZ 572 248 1141 11- 25 AE DJ N C MLEVP0023QSZZ 572 248 1140 11- 5 AE DJ N C MLEVP0023QSZZ 572 248 1140 11- 5 AE DJ N C MLEVP0024QSZZ 572 248 1141 11- 25 AE DJ N C MLEVP0024QSZZ 572 248 1140 11- 5 AE DJ N C MLEVP0023QSZZ 572 248 1141 11- 32 AF DS N C MLEVP0024QSZZ 572 248 1141 11- 32 AF DS N C MLEVP0026QSZZ 572 248 1141 11- 32 AF DS N C MLEVP0027QSZZ 572 248 1141 11- 32 AF DS N C MLEVP0029QSZZ 572 248 1141 11- 32 AF DS N C MLEVP0029QSZZ 572 248 1141 11- 32 AF DS N C MLEVP0029QSZZ 572 248 1141 11- 32 AF DS N C MLEVP0029QSZZ 572 248 1144 14- 19 AF DS N C MLEVP0029QSZZ 572 248 1145 14- 27 AF DS N C MLEVP0029QSZZ 572 248 1145 14- 27 AF DS N C MLEVP0029QSZZ 572 248 1140 11- 42 AE DS N C MLEVP0029QSZZ 572 248 1140 11- 42 AE DS N C MLEVP0029QSZZ 572 248 1140 11- 42 AE DS N C MLEVP0029QSZZ 572 248 1140 11- 42 AE DS N C MLEVP0029QSZZ 572 258 3140 4- 28 AB DJ C MSPRC0040QSZZ 572 258 3140 4- 28 AB DJ C MSPRC0040QSZZ 572 258 3139 3- 16 AC DJ N C MSPRC0081QSZZ 572 258 3239 3- 16 AC DJ N C	LX-RZ0001QSZZ	572 990 0487	7- 14	AB	DD	N	С
LX-WZ0313FCZZ 572 990 0227 9 48 AA DD C LX-WZ0314FCZZ 572 990 0230 10- 37 AA DD C LX-WZ0329FCZZ 572 990 0410 7- 13 AB DD C [M]  MARMP0005QSZZ 572 240 0348 13- 51 AE DJ N C MARMP0006QSZZ 572 240 0354 13- 20 AD DJ N C MARMP0007QSZZ 572 240 0354 13- 20 AD DJ N C MARMP0009QSZZ 572 240 0350 13- 2 AH DX N C MARMP0009QSZZ 572 240 0351 13- 16 AF DS N C MCAMP0001QSZZ 572 241 0122 13- 22 AF DS N C MCAMP0001QSZZ 572 241 0121 14- 25 AE DJ N C MLEVP0017QSZZ 572 248 1155 9- 33 AF DS N C MLEVP0019QSZZ 572 248 1155 9- 33 AF DS N C MLEVP0019QSZZ 572 248 1155 9- 33 AF DS N C MLEVP0021QSZZ 572 248 1150 11- 5 AE DJ N C MLEVP0021QSZZ 572 248 1150 11- 5 AE DJ N C MLEVP0023QSZZ 572 248 1150 11- 5 AE DJ N C MLEVP0024QSZZ 572 248 1151 11- 32 AF DS N C MLEVP0025QSZZ 572 248 1150 11- 5 AE DJ N C MLEVP0026QSZZ 572 248 1151 11- 32 AF DS N C MLEVP0027QSZZ 572 248 1150 11- 5 AE DJ N C MLEVP0027QSZZ 572 248 1150 11- 5 AE DJ N C MLEVP0027QSZZ 572 248 1151 11- 32 AF DS N C MLEVP0027QSZZ 572 248 1151 11- 32 AF DS N C MLEVP0027QSZZ 572 248 1151 11- 32 AF DS N C MLEVP0027QSZZ 572 248 1151 11- 32 AF DS N C MLEVP0027QSZZ 572 248 1151 11- 32 AF DS N C MLEVP0027QSZZ 572 248 1151 11- 32 AF DS N C MLEVP0027QSZZ 572 248 1151 11- 32 AF DS N C MLEVP0027QSZZ 572 248 1151 11- 32 AF DS N C MLEVP0027QSZZ 572 248 1151 11- 32 AF DS N C MLEVP0027QSZZ 572 248 1151 11- 32 AF DS N C MLEVP0027QSZZ 572 248 1151 11- 32 AF DS N C MLEVP0027QSZZ 572 248 1141 11- 25 AE DS N C MLEVP0027QSZZ 572 248 1141 11- 26 AF DS N C MLEVP0027QSZZ 572 248 1143 11- 32 AF DS N C MLEVP0027QSZZ 572 248 1144 11- 12 AF DS N C MLEVP0027QSZZ 572 248 1144 11- 28 AD DJ N C MLEVP0027QSZZ 572 248 1145 11- 32 AF DS N C MLEVP0027QSZZ 572 248 1140 11- 42 AE DS N C MLEVP0027QSZZ 572 248 1141 11- 26 AF DS N C MLEVP0027QSZZ 572 248 1143 11- 34 AB DJ N C MSPRC0046QSZZ 572 258 3129 6- 4 AA DJ C MSPRC0046QSZZ 572 258 3129 6- 4 AA DJ C MSPRC0046QSZZ 572 258 3129 6- 4 AA DJ C MSPRC0046QSZZ 572 258 3129 3- 16 AC DJ N C		572 990 0486	10- 13	AB	DD	Ν	C
LX-WZ0314FCZZ 572 990 0230 10- 37 AA DD C LX-WZ0329FCZZ 572 990 0410 7- 13 AB DD C [M]	LX-WZ0119FCZZ	572 990 0002	4- 35	AA	DD		С
LX-WZ0329FCZZ 572 990 0410			9- 48	AA	DD		С
[M]  MARMP0005QSZZ 572 240 0348 13-51 AE DJ N C  MARMP0006QSZZ 572 240 0354 13-20 AD DJ N C  MARMP0008QSZZ 572 240 0359 13-19 AE DJ N C  MARMP0008QSZZ 572 240 0350 13-2 AH DX N C  MARMP0009QSZZ 572 240 0351 13-16 AF DS N C  MCAMP0001QSZZ 572 241 0122 13-22 AF DS N C  MCAMP0001QSZZ 572 241 0122 13-22 AF DS N C  MCAMP0001QSZZ 572 241 10121 14-25 AE DJ N C  MLEVP0017QSZZ 572 248 1154 9-36 AF DS N C  MLEVP0019QSZZ 572 248 1155 9-33 AF DS N C  MLEVP0019QSZZ 572 248 1159 9-35 AD DJ N C  MLEVP002QSZZ 572 248 1140 9-35 AD DJ N C  MLEVP002QSZZ 572 248 1140 9-35 AD DJ N C  MLEVP002QSZZ 572 248 1150 11-5 AE DJ N C  MLEVP002QSZZ 572 248 1140 11-25 AE DS N C  MLEVP002QSZZ 572 248 1141 11-25 AE DS N C  MLEVP002QSZZ 572 248 1141 11-25 AE DS N C  MLEVP002QSZZ 572 248 1141 11-25 AE DS N C  MLEVP002QSZZ 572 248 1141 11-25 AE DS N C  MLEVP002QSZZ 572 248 1140 9-35 AD DJ N C  MLEVP002QSZZ 572 248 1140 11-5 AE DJ N C  MLEVP002QSZZ 572 248 1150 11-5 AE DJ N C  MLEVP002QSZZ 572 248 1150 11-5 AE DJ N C  MLEVP002QSZZ 572 248 1141 11-25 AE DS N C  MLEVP002QSZZ 572 248 1150 11-5 AE DS N C  MLEVP002QSZZ 572 248 1150 11-5 AE DS N C  MLEVP002QSZZ 572 248 1150 11-5 AE DS N C  MLEVP002QSZZ 572 248 1150 11-5 AE DS N C  MLEVP002QSZZ 572 248 1150 11-5 AE DS N C  MLEVP002QSZZ 572 248 1150 11-5 AE DS N C  MLEVP002QSZZ 572 248 1150 11-5 AE DS N C  MLEVP002QSZZ 572 248 1150 11-5 AE DS N C  MLEVP002QSZZ 572 248 1150 11-5 AE DS N C  MLEVP002QSZZ 572 248 1150 11-5 AE DS N C  MLEVP002QSZZ 572 248 1150 11-5 AE DS N C  MLEVP002QSZZ 572 248 1150 11-5 AE DS N C  MLEVP002QSZZ 572 248 1150 11-5 AE DS N C  MLEVP002QSZZ 572 248 1150 11-5 AE DS N C  MLEVP002QSZZ 572 248 1150 11-5 AE DS N C  MLEVP002QSZZ 572 248 1144 14-19 AF DS N C  MLEVP002QSZZ 572 248 1144 14-19 AF DS N C  MLEVP002QSZZ 572 258 3140 4-28 AB DJ N C  MSPRC004QSZZ 572 258 3140 4-28 AB DJ C  MSPRC004QSZZ 572 258 3140 4-28 AB DJ C  MSPRC004QSZZ 572 258 3140 4-28 AB DJ N C  MSPRC004SQSZZ 572 258 3140 4-28 AB DJ N C  MSPRC004SQSZZ 572 258 3129 3-16 AC DJ N C							_
MARMP0005QSZZ         572         240         0348         13-51         AE         DJ         N         C           MARMP0006QSZZ         572         240         0354         13-20         AD         DJ         N         C           MARMP0007QSZZ         572         240         0349         13-19         AE         DJ         N         C           MARMP0009QSZZ         572         240         0351         13-2         AH         DX         N         C           MCAMP0001QSZZ         572         240         0351         13-16         AF         DS         N         C           MCAMP0001QSZZ         572         241         0121         14-25         AE         DJ         N         C           MLEVP0017QSZZ         572         248         1154         9-36         AF         DS         N         C           MLEVP0019QSZZ         572         248         1155         9-33         AF         DS         N         C           MLEVP0019QSZZ         572         248         1140         9-35         AD         DJ         N         C           MLEVP002QQSZZ         572         248         1140         <		572 990 0410	7- 13	AB	DD		С
MARMP 0 0 0 6 QS Z Z         572         240         0354         13- 20         AD         DJ         N         C           MARMP 0 0 0 7 QS Z Z         572         240         0349         13- 19         AE         DJ         N         C           MARMP 0 0 0 8 QS Z Z         572         240         0350         13- 2         AH         DX         N         C           MARMP 0 0 0 9 QS Z Z         572         240         0351         13- 16         AF         DS         N         C           MCAMP 0 0 0 1 QS Z Z         572         241         0122         13- 22         AF         DS         N         C           MCAMP 0 0 0 2 QS Z Z         572         241         0121         14- 25         AE         DJ         N         C           ML EVP 0 0 1 7 QS Z Z         572         248         1154         9- 36         AF         DS         N         C           ML EVP 0 0 1 9 QS Z Z         572         248         1155         9- 33         AF         DS         N         C           ML EVP 0 0 2 9 QS Z Z         572         248         1130         9- 34         AD         DJ         N         C           ML EVP 0 0 2 2 QS		E70 040 0040	10 -:		۲.		_
MARMP0007QSZZ         572         240         0349         13-19         AE         DJ         N         C           MARMP0008QSZZ         572         240         0350         13-2         AH         DX         N         C           MARMP0009QSZZ         572         240         0351         13-16         AF         DS         N         C           MCAMP0001QSZZ         572         241         0122         13-22         AF         DS         N         C           MCEVP0017QSZZ         572         241         10121         14-25         AE         DJ         N         C           MLEVP0018QSZZ         572         248         1154         9-36         AF         DS         N         C           MLEVP0019QSZZ         572         248         1155         9-33         AF         DS         N         C           MLEVP002QQSZZ         572         248         1139         9-34         AD         DJ         N         C           MLEVP0021QSZZ         572         248         1137         11-39         AD         DJ         N         C           MLEVP0023QSZZ         572         248         1140							
MARMP0008QSZZ         572         240         0350         13-2         AH         DX         N         C           MARMP0009QSZZ         572         240         0351         13-16         AF         DS         N         C           MCAMP0001QSZZ         572         241         0122         13-22         AF         DS         N         C           MCAMP0017QSZZ         572         241         0121         14-25         AE         DJ         N         C           MLEVP0017QSZZ         572         248         1154         9-36         AF         DS         N         C           MLEVP0019QSZZ         572         248         1155         9-33         AF         DS         N         C           MLEVP002QSZZ         572         248         1139         9-34         AD         DJ         N         C           MLEVP002QQSZZ         572         248         1140         9-35         AD         DJ         N         C           MLEVP002QQSZZ         572         248         1140         9-35         AD         DJ         N         C           MLEVP002QQSZZ         572         248         1140							
MARMP0009QSZZ         572         240         0351         13- 16         AF         DS         N         C           MCAMP0001QSZZ         572         241         0122         13- 22         AF         DS         N         C           MCAMP0002QSZZ         572         241         0121         14- 25         AE         DJ         N         C           MLEVP0017QSZZ         572         248         1154         9- 36         AF         DS         N         C           MLEVP0018QSZZ         572         248         1155         9- 33         AF         DS         N         C           MLEVP0019QSZZ         572         248         1140         9- 35         AD         DJ         N         C           MLEVP0021QSZZ         572         248         1140         9- 35         AD         DJ         N         C           MLEVP0021QSZZ         572         248         1150         11- 5         AE         DJ         N         C           MLEVP0023QSZZ         572         248         1141         11- 25         AE         DS         N         C           MLEVP0024QSZZ         572         248         1150							
MCAMP0001QSZZ         572         241         0122         13-22         AF         DS         N         C           MCAMP0002QSZZ         572         241         0121         14-25         AE         DJ         N         C           MLEVP0017QSZZ         572         248         1154         9-36         AF         DS         N         C           MLEVP0019QSZZ         572         248         1155         9-33         AF         DS         N         C           MLEVP002QQSZZ         572         248         1139         9-34         AD         DJ         N         C           MLEVP0021QSZZ         572         248         1140         9-35         AD         DJ         N         C           MLEVP0021QSZZ         572         248         1140         9-35         AD         DJ         N         C           MLEVP0021QSZZ         572         248         1150         11-5         AE         DJ         N         C           MLEVP0023QSZZ         572         248         1141         11-25         AE         DS         N         C           MLEVP0024QSZZ         572         248         1145 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
MCAMP 0 0 0 2 QS Z Z         572         241         0121         14- 25         AE         DJ         N         C           ML E V P 0 0 1 7 QS Z Z         572         248         1154         9- 36         AF         DS         N         C           ML E V P 0 0 1 8 QS Z Z         572         248         1155         9- 33         AF         DS         N         C           ML E V P 0 0 1 9 QS Z Z         572         248         1139         9- 34         AD         DJ         N         C           ML E V P 0 0 2 1 QS Z Z         572         248         1140         9- 35         AD         DJ         N         C           ML E V P 0 0 2 1 QS Z Z         572         248         1137         11- 39         AD         DJ         N         C           ML E V P 0 0 2 2 QS Z Z         572         248         1150         11- 5         AE         DJ         N         C           ML E V P 0 0 2 3 QS Z Z         572         248         1141         11- 25         AE         DS         N         C           ML E V P 0 0 2 4 QS Z Z         572         248         1142         11- 32         AF         DS         N         C           <							
MLEVP0017QSZZ         572         248         1154         9-36         AF         DS         N         C           MLEVP0018QSZZ         572         248         1155         9-33         AF         DS         N         C           MLEVP0019QSZZ         572         248         1139         9-34         AD         DJ         N         C           MLEVP0021QSZZ         572         248         1140         9-35         AD         DJ         N         C           MLEVP0021QSZZ         572         248         1137         11-39         AD         DJ         N         C           MLEVP0023QSZZ         572         248         1140         11-5         AE         DJ         N         C           MLEVP0023QSZZ         572         248         1141         11-5         AE         DS         N         C           MLEVP0024QSZZ         572         248         1141         11-25         AE         DS         N         C           MLEVP0025QSZZ         572         248         1151         14-28         AD         DJ         N         C           MLEVP0026QSZZ         572         248         1143 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
MLEVP0018QSZZ         572         248         1155         9-33         AF         DS         N         C           MLEVP0019QSZZ         572         248         1139         9-34         AD         DJ         N         C           MLEVP0021QSZZ         572         248         1140         9-35         AD         DJ         N         C           MLEVP0021QSZZ         572         248         1140         9-35         AD         DJ         N         C           MLEVP0021QSZZ         572         248         1150         11-5         AE         DJ         N         C           MLEVP0023QSZZ         572         248         1141         11-25         AE         DS         N         C           MLEVP0024QSZZ         572         248         1142         11-32         AF         DS         N         C           MLEVP0025QSZZ         572         248         1151         14-28         AD         DJ         N         C           MLEVP0027QSZZ         572         248         1143         14-26         AF         DS         N         C           MLEVP0029QSZZ         572         248         1144 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>							
MLEVP0019QSZZ         572         248         1139         9-34         AD         DJ         N         C           MLEVP002QSZZ         572         248         1140         9-35         AD         DJ         N         C           MLEVP0021QSZZ         572         248         1137         11-39         AD         DJ         N         C           MLEVP0023QSZZ         572         248         1150         11-5         AE         DJ         N         C           MLEVP0024QSZZ         572         248         1141         11-25         AE         DS         N         C           MLEVP0024QSZZ         572         248         1142         11-32         AF         DS         N         C           MLEVP0024QSZZ         572         248         1141         11-32         AF         DS         N         C           MLEVP0026QSZZ         572         248         1151         14-28         AD         DJ         N         C           MLEVP0027QSZZ         572         248         1143         14-26         AF         DS         N         C           MLEVP0029QSZZ         572         248         1144         <							
MLEVP0020QSZZ         572         248         1140         9-35         AD         DJ         N         C           MLEVP0021QSZZ         572         248         1137         11-39         AD         DJ         N         C           MLEVP0022QSZZ         572         248         1150         11-5         AE         DJ         N         C           MLEVP0023QSZZ         572         248         1141         11-25         AE         DS         N         C           MLEVP0024QSZZ         572         248         1141         11-32         AF         DS         N         C           MLEVP0025QSZZ         572         248         1151         14-28         AD         DJ         N         C           MLEVP0027QSZZ         572         248         1143         14-28         AD         DJ         N         C           MLEVP0027QSZZ         572         248         1143         14-26         AF         DS         N         C           MLEVP0028QSZZ         572         248         1144         14-19         AF         DS         N         C           MLEVP0024QSZZ         572         248         1145							
MLEVP0021QSZZ         572         248         1137         11-39         AD         DJ         N         C           MLEVP0022QSZZ         572         248         1150         11-5         AE         DJ         N         C           MLEVP0023QSZZ         572         248         1141         11-25         AE         DS         N         C           MLEVP0024QSZZ         572         248         1142         11-32         AF         DS         N         C           MLEVP0025QSZZ         572         248         1151         14-28         AD         DJ         N         C           MLEVP0026QSZZ         572         248         1156         9-42         AG         DX         N         C           MLEVP0027QSZZ         572         248         1143         14-26         AF         DS         N         C           MLEVP0028QSZZ         572         248         1144         14-19         AF         DS         N         C           MLEVP0029QSZZ         572         248         1145         14-27         AF         DS         N         C           MLEVP0044QSZZ         572         248         1161							
MLEVP0023QSZZ         572         248         1141         11-25         AE         DS         N         C           MLEVP0024QSZZ         572         248         1142         11-32         AF         DS         N         C           MLEVP0025QSZZ         572         248         1151         14-28         AD         DJ         N         C           MLEVP0026QSZZ         572         248         1156         9-42         AG         DX         N         C           MLEVP0027QSZZ         572         248         1143         14-26         AF         DS         N         C           MLEVP0029QSZZ         572         248         1144         14-19         AF         DS         N         C           MLEVP0029QSZZ         572         248         1145         14-27         AF         DS         N         C           MLEVP0044QSZZ         572         248         1160         11-42         AE         DS         N         C           MLEVP0045QSZZ         572         248         1161         14-48         AD         DJ         N         C           MSPRC0024QSZZ         572         258         3129	MLEVP0021QSZZ	572 248 1137					
MLEVP0024QSZZ         572         248         1142         11-32         AF         DS         N         C           MLEVP0025QSZZ         572         248         1151         14-28         AD         DJ         N         C           MLEVP0026QSZZ         572         248         1156         9-42         AG         DX         N         C           MLEVP0027QSZZ         572         248         1143         14-26         AF         DS         N         C           MLEVP0028QSZZ         572         248         1144         14-19         AF         DS         N         C           MLEVP0044QSZZ         572         248         1145         14-27         AF         DS         N         C           MLEVP0044QSZZ         572         248         1160         11-42         AE         DS         N         C           MLEVP0045QSZZ         572         248         1161         14-48         AD         DJ         N         C           MSPRC0024QSZZ         572         258         3129         6-4         AA         DJ         C           MSPRC004QSZZ         572         258         3140         4-28							
MLEVP0025QSZZ         572         248         1151         14-28         AD         DJ         N         C           MLEVP0026QSZZ         572         248         1156         9-42         AG         DX         N         C           MLEVP0027QSZZ         572         248         1143         14-26         AF         DS         N         C           MLEVP0028QSZZ         572         248         1144         14-19         AF         DS         N         C           MLEVP0024QSZZ         572         248         1145         14-27         AF         DS         N         C           MLEVP0044QSZZ         572         248         1160         11-42         AE         DS         N         C           MLEVP0045QSZZ         572         248         1161         14-48         AD         DJ         N         C           MSPRC004QSZZ         572         258         3129         6-4         4         AA         DJ         C           MSPRC004QSZZ         572         258         3140         4-28         AB         DJ         C           MSPRC0081QSZZ         572         258         3238         10-34							
MLEVP0026QSZZ         572         248         1156         9-42         AG         DX         N         C           MLEVP0027QSZZ         572         248         1143         14-26         AF         DS         N         C           MLEVP0028QSZZ         572         248         1144         14-19         AF         DS         N         C           MLEVP0029QSZZ         572         248         1145         14-27         AF         DS         N         C           MLEVP0044QSZZ         572         248         1160         11-42         AE         DS         N         C           MLEVP0045QSZZ         572         248         1161         14-48         AD         DJ         N         C           MSPRC0024QSZZ         572         258         3129         6-4         AA         DJ         C           MSPRC0040QSZZ         572         258         3140         4-28         AB         DJ         C           MSPRC0081QSZZ         572         258         3238         10-34         AB         DJ         N         C           MSPRC0082QSZZ         572         258         3239         3-16         AC							
MLEVP0027QSZZ       572       248       1143       14-26       AF       DS       N       C         MLEVP0028QSZZ       572       248       1144       14-19       AF       DS       N       C         MLEVP0029QSZZ       572       248       1145       14-27       AF       DS       N       C         MLEVP0044QSZZ       572       248       1160       11-42       AE       DS       N       C         MLEVP0045QSZZ       572       248       1161       14-48       AD       DJ       N       C         MSPRC0024QSZZ       572       258       3129       6-4       AA       DJ       C         MSPRC0040QSZZ       572       258       3140       4-28       AB       DJ       C         MSPRC0045QSZZ       572       258       3142       7-26       AA       DJ       C         MSPRC0081QSZZ       572       258       3238       10-34       AB       DJ       N       C         MSPRC0082QSZZ       572       258       3239       3-16       AC       DJ       N       C							
MLEVP0028QSZZ         572         248         1144         14-19         AF         DS         N         C           MLEVP0029QSZZ         572         248         1145         14-27         AF         DS         N         C           MLEVP0044QSZZ         572         248         1160         11-42         AE         DS         N         C           MLEVP0045QSZZ         572         248         1161         14-48         AD         DJ         N         C           MSPRC0024QSZZ         572         258         3129         6-4         AA         DJ         C           MSPRC0040QSZZ         572         258         3140         4-28         AB         DJ         C           MSPRC0045QSZZ         572         258         3142         7-26         AA         DJ         C           MSPRC0081QSZZ         572         258         3238         10-34         AB         DJ         N         C							
MLEVP0029QSZZ         572         248         1145         14-27         AF         DS         N         C           MLEVP0044QSZZ         572         248         1160         11-42         AE         DS         N         C           MLEVP0045QSZZ         572         248         1161         14-48         AD         DJ         N         C           MSPRC0024QSZZ         572         258         3129         6-4         AA         DJ         C           MSPRC004QSZZ         572         258         3140         4-28         AB         DJ         C           MSPRC004QSZZ         572         258         3142         7-26         AA         DJ         C           MSPRC0081QSZZ         572         258         3238         10-34         AB         DJ         N         C           MSPRC0082QSZZ         572         258         3239         3-16         AC         DJ         N         C							
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MLEVP0045QSZZ       572       248       1161       14-48       AD       DJ       N       C         MSPRC0024QSZZ       572       258       3129       6-4       AA       DJ       C         MSPRC0040QSZZ       572       258       3140       4-28       AB       DJ       C         MSPRC0045QSZZ       572       258       3142       7-26       AA       DJ       C         MSPRC0081QSZZ       572       258       3238       10-34       AB       DJ       N       C         MSPRC0082QSZZ       572       258       3239       3-16       AC       DJ       N       C							-
MSPRC0024QSZZ         572         258         3129         6-         4-         AA         DJ         C           MSPRC0040QSZZ         572         258         3140         4-         28         AB         DJ         C           MSPRC0045QSZZ         572         258         3142         7-         26         AA         DJ         C           MSPRC0081QSZZ         572         258         3238         10-         34         AB         DJ         N         C           MSPRC0082QSZZ         572         258         3239         3-         16         AC         DJ         N         C							
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MSPRC0082QSZZ 572 258 3239 3- 16 AC DJ N C						N	
	MSPRC0083QSZZ		3- 14	AD	DJ	N	С

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PARTS CODE	JAPAN ONLY ORDER CODE	NO.	PRIC Ex.	Ja.	NEW	P/R
MSPRC0084QSZZ	572 258 3241	3- 13	AD	DJ	N	С
MSPRC0085QSZZ	572 258 3242	3- 9	AE	DJ	N	С
MSPRC0090QSZZ MSPRC0099QSZZ	572 258 3243	16- 11	AD	DJ	N	С
MSPRC0199QSZZ MSPRC0101QSZZ	572 258 3244 572 258 3245	11- 38 11- 30	AC AB	DJ DJ	N N	C
MSPRC0105QSZZ	572 258 3246	6- 26	AB	DJ	N	С
MSPRC0106QSZZ	572 258 3247	6- 35	AF	DS	N	C
MSPRC1145FCZZ	572 258 1272	16- 16	AA	DD		С
MSPRC1152FCZZ	572 258 1329	11- 15	AE	DJ		С
MSPRC1315FCZ1 MSPRC1316FCZ1	572 258 2131	13- 7	AD	DJ		С
MSPRC1318FCZ1	572 258 2132 572 258 2134	13- 23 10- 9	AE AA	DS DJ		C
//	572 258 2134	13- 29	AA	DJ		C
MSPRC1873FCZ1	572 258 2216	16- 15	AB	DJ		С
MSPRC2132FCZ1	572 258 2195	10- 23	AA	DJ		С
MSPRC2175FCZZ	572 258 2170	13- 32	AA	DJ		С
MSPRD0092QSZZ MSPRD0102QSZZ	572 258 3287 572 258 3250	13- 26 6- 14	AE	DJ DJ	N N	C
MSPRD0103QSZZ	572 258 3251	6- 13	AC	DJ	N	С
MSPRD0104QSZZ	572 258 3252	6- 12	AC	DJ	N	C
MSPRD0117QSZZ	572 258 3253	9- 43	AB	DJ	N	С
MSPRD0118QSZZ	572 258 3254	9- 44	AB	DJ	N	С
MSPRD0139QSZZ MSPRD0143QSZZ	572 258 3262 572 258 3264	6- 30	AB	DJ	N	С
MSPRD0143QSZZ	572 258 3264	14- 30 14- 52	AF AC	DS DJ	N N	C
MSPRK0001YSZZ	572 258 3266	8- 27	AB	DJ	N	С
MSPRP0087QSZZ	572 258 3267	9- 31	AC	DJ	N	C
MSPRT0086QSZZ	572 258 3274	9- 18	AB	DJ	N	С
MSPRT0089QSZZ	572 258 3275	9- 32	AC	DJ	N	С
MSPRT0091QSZZ	572 258 3276	13- 12	AC	DJ	N	С
MSPRT0100QSZZ MSPRT0107QSZZ	572 258 3277 572 258 3278	11- 4 14- 55	AB	DJ DJ	N N	C
MSPRT0147QSZZ	572 258 3301	13- 36	AC	DJ	N	С
MSPRT0229GCAZ	578 258 0416	14- 7	AC	DJ		C
MSPRT0513FCZ1	572 258 2240	15- 8	AA	DJ		С
(N)	F70 071 0F00	4 07	A11	DV		2
NBLTT0002QSZZ NBLTT0007QSZZ	572 271 0583 572 271 0603	4- 37 12- 36	AH	DX	N	B B
NBRGC0008YSZZ	572 271 0003	8- 12	AH	DX	N	С
NBRGC0047FCZZ	572 272 0065	6- 38	AD	DJ		C
NBRGC0133FCZ1	572 272 0470	4- 46	AC	DJ		С
NBRGC0387FCZ1	572 272 0471	4- 39	AC	DJ		С
// NBRGC0529FCZZ	572 272 0471 572 272 0498	8- 18	AC	DJ		С
//	572 272 0498	12- 31 14- 13	AD AD	DJ DJ		C
//	572 272 0498	14- 23	AD	DJ		C
NBRGM0008QSZZ	572 272 0676	14- 33	AE	DJ	Ν	С
NBRGP0007QSZZ	572 272 0677	11- 19	AD	DJ	N	С
NBRGP0260FCZ1 NBRGP0299FCZZ	572 272 0433	9- 28	AD	DS		С
NBRGY2122SCZZ	572 272 0013 595 272 0047	7- 18 14- 15	AC AB	DJ DD		C B
//	595 272 0047	14- 37	AB	DD		В
NCPL-0002QSZZ	572 274 0043	6- 3	AC	DJ		С
NCPL-0003QSZZ	572 274 0044	7- 9	AC	DJ		С
NCPL-0004FCZZ	572 274 0003	10- 24	AB	DD	K.I	С
NFANP0002QSZZ NFANP0003QSZZ	572 277 0083 572 277 0084	14- 43 12- 6	AY	FQ FQ	N N	B B
NGERH0001YSZZ	572 281 1818	8- 15	AD	DJ	N	С
NGERH0002YSZZ	572 281 1819	8- 13	AD	DJ	N	Č
NGERH0007QSZZ	572 281 1748	10- 26	AH	DX		С
NGERHOOO8QSZ1	572 281 1749	10- 28	AL	EB		С
NGERH0009QSZZ NGERH0010QSZZ	572 281 1750 572 281 1751	10- 20 10- 19	AD AD	DJ DJ		C
NGERH0011QSZZ	572 281 1751	10- 19	AD	DJ		С
NGERH0012QSZZ	572 281 1753	10- 30	AE	DS		С
NGERH0013QSZZ	572 281 1754	10- 32	AG	DX		С
NGERHOO14QSZZ	572 281 1755	10- 21	AD	DJ		С
NGERH0016QSZZ NGERH0027QSZZ	572 281 1757 572 281 1766	10- 33 4- 34	AD AH	DJ DX		C
NGERH0027QSZZ	572 281 1767	8- 17	AH	DJ		C
NGERH0034QSZ1	572 281 1832	7- 34	AC	DJ	N	C
NGERH0035QSZ1	572 281 1833	7- 33	AC	DJ	N	С
NGERH0036QSZZ	572 281 1773	7- 28	AC	DJ		С
NGERHOO37QSZZ	572 281 1774 572 281 1775	7- 30	AC	DJ		С
NGERH0038QSZZ NGERH0039QSZZ	572 281 1775 572 281 1776	7- 29 7- 25	AC AE	DJ DS		C
NGERH0039QSZZ	572 281 1776	10- 25	AE	DJ	N	С
NGERH0053QSZZ	572 281 1824	10- 14	AD	DJ	N	C
NGERH0054QSZZ	572 281 1825	10- 38	AD	DJ	N	С
NGERH0055QSZZ	572 281 1826	10- 35	AE	DJ	N	С
NGERH0056QSZZ	572 281 1827	10- 36	AE	DJ	N	С

	PARTS CODE	JAPAN ONLY ORDER CODE	NO.	PRIC	E R. Ja.	NEW	P/R
1	NGERH0057QSZZ	572 281 1828	10- 27	AE	DJ	N	С
-	NGERH0057Q0ZZ	572 281 1829	10- 27	AF	DS	N	C
-	NGERH0059QSZZ	572 281 1830					
-			10- 29	AD	DJ	N	C
4	NGERH0060QSZZ	572 281 1809	11- 17	AH	DX	N	С
	NGERH0061QSZZ	572 281 1810	13- 15	AD	DJ	N	С
	NGERH0062QSZZ	572 281 1831	6- 37	AK	DX	N	С
	NGERH0063QSZZ	572 281 1811	14- 31	AD	DJ	N	С
	NGERH0067QSZZ	572 281 1812	14- 56	AD	DJ	N	С
	NGERH0068QSZZ	572 281 1813	14- 57	AD	DJ	N	С
	NGERH0070QSZZ	572 281 1814	14- 35	AC	DJ	N	С
	NGERH0071QSZZ	572 281 1815	12- 34	AF	DS	N	C
1	NGERH0076QSZZ	572 281 1816	14- 21	AD	DJ	N	C
1	NGERH0193FCZZ	572 281 0318	13- 46	AB	DD	11	C
-	//	572 281 0318					
-			-	AB	DD		<u>C</u>
-	NGERH0495FCZZ	572 281 0665	13- 14	AC	DD		С
	NGERH0540FCZ1	572 281 1277	9- 13	AE	DJ		С
	NGERH0972FCZZ	572 281 1108	13- 27	AB	DJ		С
	NKOM-0001QSZZ	572 273 0019	6- 29	AD	DJ	N	С
	NKŌM-0002QSZZ	572 273 0020	14- 9	AC	DJ	N	С
	NPLYZ0003QSZZ	572 284 0698	4- 43	AM	EG		С
	NPLYZ0004QSZZ	572 284 0699	4- 40	AG	DX		C
1 !	NPLYZ0005QSZZ	572 284 0700	4- 18	AG	DX	N	C
- I	NPLYZ0005Q3ZZ	572 284 0700					
- I	NPLYZ0006QSZZ NPLYZ0007QSZZ			AD	DJ	N	C
- I		572 284 0702	5- 4	AG	DX		С
	NPLYZ0009QSZZ	572 284 0716	12- 33	AD	DJ	N	<u>C</u>
	NRŌL i 0 0 3 0 QSZZ	572 287 1890	9- 11	BC	GJ	N	С
] [	NRŌLM0001YSZZ	572 287 1891	8- 10	AP	EQ	N	С
	NRŌLM0002YSZZ	572 287 1906	8- 20	BA	FX	Ν	С
1 I	NRŌLM0037QSZZ	572 287 1907	14- 6	AR	EQ	N	С
	NRŌLP0032QSZZ	572 287 1898	6- 40	AT	EZ	N	C
1 1	NRŌLP0033QSZZ	572 287 1899	14- 6	AR	EQ	N	С
-	NRŌLP0034QSZZ	572 287 1908					
-	_		14- 8	AD	DJ	N	C
-	NROLP0038QSZZ	572 287 1900	14- 38	AP	EQ	N	С
-	NROLP1122FCZZ	572 287 1526	14- 46	AF	DS		C
	NRŌLR0031QSZZ	572 287 1903	9- 27	BC	GJ	N	С
	NRŌLR0922FCZZ	572 287 1120	13- 13	AR	EZ		С
	NSFTZ0016QSZZ	572 290 2469	9- 26	AH	DX	N	С
	NSFTZ0017QSZZ	572 290 2470	13- 21	AG	DS	N	С
	NSFTZ0018QSZZ	572 290 2471	13- 11	AL	EB	N	С
1 1	NSFTZ0019QSZZ	572 290 2472	7- 22	AE	DJ	N	С
1	NSFTZ0020QSZZ	572 290 2473	7- 19	AL	EB	N	C
1	NSFTZ0021QSZZ	572 290 2474	6- 28	AK	EB	N	C
-	NSFTZ0025QSZZ	572 290 2475	14- 24	AQ	EQ	N	C
-	NSFTZ0028QSZZ	572 290 2475					
-		372 290 2470	4- 44	AM	EG	N	С
-	[P]						
- 1	PBOX-0001YSZZ	572 307 0405	8- 11	AN	EQ	N	<u>D</u>
	PBRSR0005QSZZ	572 310 0315	14- 11	AK	EB	N	В
	PCAPH0001YSZZ	572 312 0054	8- 16	AD	DJ	N	С
	PCAPH0004YSZZ	572 312 0055	8- 3	AC	DJ	N	С
	PCAPH0005YSZZ	572 312 0056	8- 2	AD	DJ	N	С
	PCAPH0009QSZZ	572 312 0053	7- 21	AC	DJ	N	С
	PCAPH0011QSZZ	572 312 0059	1- 29	AC	DJ	N	C
1 1	PCASZ0006QSZZ	572 315 0193	15- 12	AM	EG	N	C
1	PCASZ0008QSZZ	572 315 0195	4- 7	AM	EG	N	C
-	PCOVP0001YSZZ	572 313 0193	8- 30	AE			
- I					DJ	N	С
	PCOVP0018QSZZ	572 323 1887	7- 32	AG	DS	1	С
- 1	$D \cap \overline{\cap} V \cap \overline{\cap} \circ \circ$	EZO 000 1000	c -	A \ '	F~		
	PCOVP0029QSZZ	572 323 1922	9- 5	AX	FG	N	С
	PCOVP0030QSZA	572 323 1938	13- 1	AM	EG	N	С
	PCŌVP0030QSZA PCŌVP0030QSZZ	572 323 1938 572 323 1913					
	PCOVP0030QSZA	572 323 1938 572 323 1913 572 323 1916	13- 1	AM	EG	N	С
- - - -	PCŌVP0030QSZA PCŌVP0030QSZZ	572 323 1938 572 323 1913	13- 1 13- 1	AM AN	EG EG	N N	C
- - - - - -	PCŌVP0030QSZA PCŌVP0030QSZZ PCŌVP0032QSZZ	572 323 1938 572 323 1913 572 323 1916	13- 1 13- 1 11- 37 11- 26	AM AN AE AF	EG EG DJ	N N N	C C
- - - - - -	PCŌVP0030QSZA PCŌVP0030QSZZ PCŌVP0032QSZZ PCŌVP0033QSZZ	572 323 1938 572 323 1913 572 323 1916 572 323 1923	13- 1 13- 1 11- 37	AM AN AE AF AB	EG EG DJ DS DJ	N N N	C C C
- - - - - - -	PCOVP0030QSZA PCOVP0030QSZZ PCOVP0032QSZZ PCOVP0033QSZZ PCUSG0190FCZ1 PCUSS0009QSZZ	572 323 1938 572 323 1913 572 323 1916 572 323 1923 572 326 0236 572 326 0377	13- 1 13- 1 11- 37 11- 26 4- 21 5- 10	AM AN AE AF AB AA	EG EG DJ DS DJ DJ	N N N	C C C C
	PCOVP0030QSZA PCOVP0030QSZZ PCOVP0032QSZZ PCOVP0033QSZZ PCUSG0190FCZ1 PCUSS0009QSZZ PCUSS0201FCZZ	572     323     1938       572     323     1913       572     323     1916       572     323     1923       572     326     0236       572     326     0377       572     326     0103	13- 1 13- 1 11- 37 11- 26 4- 21 5- 10 5- 14	AM AN AE AF AB AA AA	EG DJ DS DJ DJ DJ	N N N	C C C C C
- - - - - - -	PCOVP0030QSZA PCOVP0030QSZZ PCOVP0032QSZZ PCOVP0033QSZZ PCUSG0190FCZ1 PCUSS0009QSZZ PCUSS0201FCZZ PDUC-0003QSZZ	572 323 1938 572 323 1913 572 323 1916 572 323 1923 572 326 0236 572 326 0377 572 326 0103 572 332 0194	13- 1 13- 1 11- 37 11- 26 4- 21 5- 10 5- 14 14- 44	AM AN AE AF AB AA AA	EG EG DJ DS DJ DJ DJ DD DX	X X X X X X X X X X X X X X X X X X X	C C C C C
	PCOVP0030QSZA PCOVP0030QSZZ PCOVP0032QSZZ PCOVP0033QSZZ PCUSG0190FCZI PCUSS0009QSZZ PCUSS0201FCZZ PDUC-0003QSZZ PFiLZ0004QSZZ	572 323 1938 572 323 1913 572 323 1916 572 323 1923 572 326 0236 572 326 0103 572 326 0103 572 332 0194 572 337 0363	13- 1 13- 1 11- 37 11- 26 4- 21 5- 10 5- 14 14- 44 14- 40	AM AN AE AF AB AA AA AK AM	EG EG DJ DS DJ DJ DD DD DX EG	X X X X X X X X X X X X X X X X X X X	C C C C C C
	PCOVP0030QSZA PCOVP0030QSZZ PCOVP0032QSZZ PCOVP0033QSZZ PCUSG0190FCZ1 PCUSS0009QSZZ PCUSS0201FCZZ PDUC-0003QSZZ PFILZ0004QSZZ PGIDH0031QSZZ	572         323         1938           572         323         1913           572         323         1916           572         323         1923           572         326         0236           572         326         0103           572         326         0103           572         332         0194           572         345         3201	13- 1 13- 1 11- 37 11- 26 4- 21 5- 10 5- 14 14- 44 14- 40 15- 2	AM AN AE AF AB AA AA AK AM AH	EG EG DJ DS DJ DJ DD CD DX EG DX	N N N N	C C C C C C C
	PCOVP0030QSZA PCOVP0030QSZZ PCOVP0032QSZZ PCOVP0033QSZZ PCUSG0190FCZ1 PCUSS0009QSZZ PCUSS0201FCZZ PDUC-0003QSZZ PFILZ0004QSZZ PGIDH0031QSZZ PGIDH0033QSZZ	572         323         1938           572         323         1913           572         323         1916           572         323         1923           572         326         0236           572         326         0103           572         326         0103           572         332         0194           572         337         0363           572         345         3201           572         345         3202	13- 1 13- 1 11- 37 11- 26 4- 21 5- 10 5- 14 14- 44 14- 40 15- 2 9- 25	AM AN AE AF AB AA AA AK AM AH AL	EG EG DJ DS DJ DJ DD DX EG DX EB	N N N N N	C C C C C C C C C C C C C C C C C C C
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PMLT-0015QSZZ	572 375 0877	7- 4	AA	DJ		С
PMLT-0017QSZZ	572 375 0879	7- 17	AC	DJ		С
PMLT-0018QSZ1	572 375 0882	7- 20	AC	DJ		С
PMLT-0023QSZZ	572 375 0896	7- 7	AE	DJ	N	C
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		4- 51	AC	DJ	N	С
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PSHEZ0059QSZZ	572 403 4393	1- 2	AF	DS	N	C
PSHEZ0088QSZZ	572 403 4442	1- 27	AF	DS	N	С
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PSHEZ0099QSZZ	572 403 4444	13- 35	AC	DJ	N	С
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PSHEZ0105QSZZ	572 403 4446	9- 46	AC	DJ	N	С
PSHEZ0108QSZZ	572 403 4447	4- 52	AC	DJ	N	С
PSHEZ0109QSZZ	572 403 4448	4- 53	AC	DJ	N	С
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PSHEZ2174FCZZ	572 403 2095	11- 23	AB	DD		С
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PIME-01/9FCZZ	572 420 0182	13- 30	AC	DD		С
PTME-0255FCZZ PTME-0256FCZZ	572 420 0271 572 420 0272	16- 6	AG	DS		С
PTPE-0006QSZZ		16- 10	AG	DS	NI	С
PWiR-0005QSZZ	572 423 0216 572 427 1635	7- 15 4- 1	AC AS	DJ EQ	N N	С
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QCNCM0016QSZZ	572 510 1057	18- 1	AL	EB	N	С
QCNCM0017QSZZ	572 510 1051	18- 2	AC	DJ	N	C
QCNCM0019QSZZ	572 510 1052	18- 3	AB	DJ	N	C
QCNCM0029QSZZ	572 510 1071	25- 2	AK	DX	N	C
QCNCM0030QSZZ	572 510 1064	18- 4	AL	EB		C
QCNCM0672FCZZ	595 510 0041	29- 2	AB	DD		С
QCNCM0846FCZZ	572 510 0697	18- 5	AF	DS		С
QCNCM0877FCZZ	572 510 0842	18- 6	AF	DS		С
QCNCM0923FC22	572 510 0869	18- 7	AF	DS		С
QCNCM0923FC24	572 510 0870	18- 8	AF	DS		С
QCNCM1005MCZZ	589 510 0004	18- 9	AB	DD		С
QCNCM1006MCZZ	589 510 0020	18- 10	AB	DD		С
QCNCM1119LC0C	572 510 1049	18- 11	AC	DJ	N	С
QCNCM1119LC0D	572 510 1055	18- 12	AC	DJ	N	С
// OCNOMO 4 0 1 CC 0 C	572 510 1055	29- 3	AC	DJ	N	С
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QCNCM2401SC0D	595 510 0090	18- 14	AC	DJ		С
QCNCM2401SC0E QCNCM2401SC0F	578 510 0195	18- 15	AC	DJ		С
QCNCM2401SC0F QCNCM7014SC0B	595 510 0782 595 510 0337	28- 2	AB	DJ		C
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QCNCM7014SC0D	595 510 0336	18- 18	AB	DD		C
QCNCM70143C0B	595 510 0343	18- 19	AB	DJ		C
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LQCNCM7014SC0F	595 510 0346	18- 20	AR	חם		C
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QCNCM7014SC1B	595 510 0352	18- 23	AD	DJ		С
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QCNCW0020QSZZ	572 510 1058	19- 1	AG	DS	N	С
QCNCW0021QSZZ	572 510 1059	19- 2	AF	DS	N	С
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	572 510 1059	27- 2	AF	DS	N	С
QCNCW0022QSZZ	572 510 1060	19- 3	AE	DJ	N	С
QCNCW0023QSZZ	572 510 1061	19- 4	ΑE	DS	N	С
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	572 510 1056	18- 29	AF	DS		С
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QCNCW0843FCZZ	572 510 0712	29- 5	AC	DJ		С
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		18- 30		DX		
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QSW-B0003QSZZ	572 530 0667	6- 44	AF	DS		В
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"	572 530 0679	27- 3	AC	DJ	N	В
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RCRSZ0003QSZZ						_
		18- 39	AP	EQ		В
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RCRSZ0005QSZZ	572 616 0104	19- 7	AF	DS	N	В
RDEN-0001QSZZ	572 685 1806		BK	HG	N	Ē
		12- 11		_		
RDEN-0002QS11	572 685 1808	12- 8	BX	RR	N	E
<i>"</i>	572 685 1808	26-901	BX	RR	N	E
RDEN-0002QS12	572 685 1809	12- 8	BY	TF	N	Е
	572 685 1809	26-901	BY	TF	N	Е
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RFiLN0019GCZZ	578 621 0026	18-117	AC	DJ		В
RHET-0003QSZZ	572 623 0077	4- 12	AP	EQ	N	В
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RLMPU0006QSZZ	572 626 0581	9- 6	ВА	FX	N	В
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		0 0	D ^	EV		D
RMŌTD0016QSZZ		9- 6	BA	FX	N	В
	572 630 0966	6- 5	AY	FQ	N N	ВВ
RMŌTP0014QSZZ	572 630 0965				N	
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RMŌTP0018QSZZ	572 630 0965 572 630 0968	6- 5 10- 7 14- 59	AY BH AV	FQ GX FG	N N N	B B
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RMŌTP0018QSZZ RMŌTP0021QSZZ RMPTW4000QCJJ	572 630 0965 572 630 0968 572 630 0970 594 631 0096	6- 5 10- 7 14- 59	AY BH AV	FQ GX FG	N N N	B B
RMŌTP0018QSZZ RMŌTP0021QSZZ	572 630 0965 572 630 0968 572 630 0970	6- 5 10- 7 14- 59 4- 30	AY BH AV BB	FQ GX FG GD	N N N	B B B
RMŌTP0018QSZZ RMŌTP0021QSZZ RMPTW4000QCJJ RMPTW4103QCJJ	572     630     0965       572     630     0968       572     630     0970       594     631     0096       571     631     0147	6- 5 10- 7 14- 59 4- 30 18- 41 18- 42	AY BH AV BB AB AB	FQ GX FG GD DD	N N N	B B B B
RMOTP0018QSZZ RMOTP0021QSZZ RMPTW4000QCJJ RMPTW4103QCJJ RMPTW4203QCJJ	572         630         0965           572         630         0968           572         630         0970           594         631         0096           571         631         0147           572         631         0262	6- 5 10- 7 14- 59 4- 30 18- 41 18- 42 18- 43	AY BH AV BB AB AB	FQ GX FG GD DD DD	N N N	B B B B B
RMOTP0018QSZZ RMOTP0021QSZZ RMPTW4000QCJJ RMPTW4103QCJJ RMPTW4203QCJJ RMPTW4222QCJJ	572         630         0965           572         630         0968           572         630         0970           594         631         0096           571         631         0147           572         631         0262           572         631         0254	6- 5 10- 7 14- 59 4- 30 18- 41 18- 42 18- 43 18- 44	AY BH AV BB AB AB AA AA	FQ GX FG GD DD DD DD	N N N	B B B B B B
RMOTP0018QSZZ RMOTP0021QSZZ RMPTW4000QCJJ RMPTW4103QCJJ RMPTW4203QCJJ RMPTW422QCJJ RMPTW4330QCJJ	572         630         0965           572         630         0968           572         630         0970           594         631         0096           571         631         0147           572         631         0262	6- 5 10- 7 14- 59 4- 30 18- 41 18- 42 18- 43	AY BH AV BB AB AB	FQ GX FG GD DD DD	N N N	B B B B B
RMOTP0018QSZZ RMOTP0021QSZZ RMPTW4000QCJJ RMPTW4103QCJJ RMPTW4203QCJJ RMPTW4222QCJJ	572         630         0965           572         630         0968           572         630         0970           594         631         0096           571         631         0147           572         631         0262           572         631         0254           567         631         0058	6- 5 10- 7 14- 59 4- 30 18- 41 18- 42 18- 43 18- 44 18- 45	AY BH AV BB AB AB AA AA	FQ GX FG DD DD DD DD DD	N N N N	B B B B B B B
RMOTP0018QSZZ RMOTP0021QSZZ RMPTW4000QCJJ RMPTW4103QCJJ RMPTW4203QCJJ RMPTW422QCJJ RMPTW4330QCJJ RPLU-0007QSZZ	572         630         0965           572         630         0968           572         630         0970           594         631         0096           571         631         0147           572         631         0262           572         631         0254           567         631         0058           572         647         0330	6- 5 10- 7 14- 59 4- 30 18- 41 18- 42 18- 43 18- 44 18- 45 13- 28	AY BH AV BB AB AB AA AB AB	FQ GX FG GD DD DD DD DD DD	N N N N	B B B B B B B
RMOTP0018QSZZ RMOTP0021QSZZ RMPTW4000QCJJ RMPTW4103QCJJ RMPTW4203QCJJ RMPTW422QCJJ RMPTW4330QCJJ RPLU-0007QSZZ RPLU-0008QSZZ	572         630         0965           572         630         0968           572         630         0970           594         631         0096           571         631         0147           572         631         0262           572         631         0254           567         631         0058           572         647         0330           572         647         0331	6- 5 10- 7 14- 59 4- 30 18- 41 18- 42 18- 43 18- 44 18- 45 13- 28 10- 16	AY BH AV BB AB AB AA AB AA AB AN	FQ GX FG GD DD DD DD DD EG EG	N N N N N	B B B B B B B B
RMOTP0018QSZZ RMOTP0021QSZZ RMPTW4000QCJJ RMPTW4103QCJJ RMPTW4203QCJJ RMPTW422QCJJ RMPTW4330QCJJ RPLU-0007QSZZ RPLU-0008QSZZ RPLU-0009QSZZ	572         630         0965           572         630         0968           572         630         0970           594         631         0096           571         631         0147           572         631         0262           572         631         0254           567         631         0058           572         647         0330           572         647         0331           572         647         0332	6- 5 10- 7 14- 59 4- 30 18- 41 18- 42 18- 43 18- 44 18- 45 13- 28 10- 16 10- 10	AY BH AV BB AB AB AA AB AA AB AN AN	FQ GX FG GD DD DD DD DD EG EG	N N N N	B B B B B B B B B B B B B B B B
RMOTP0018QSZZ RMOTP0021QSZZ RMPTW4000QCJJ RMPTW4103QCJJ RMPTW4203QCJJ RMPTW422QCJJ RMPTW4330QCJJ RPLU-0007QSZZ RPLU-0008QSZZ	572         630         0965           572         630         0968           572         630         0970           594         631         0096           571         631         0147           572         631         0262           572         631         0254           567         631         0058           572         647         0330           572         647         0331	6- 5 10- 7 14- 59 4- 30 18- 41 18- 42 18- 43 18- 44 18- 45 13- 28 10- 16	AY BH AV BB AB AB AA AB AA AB AN	FQ GX FG GD DD DD DD DD EG EG	N N N N N	B B B B B B B B
RMOTP0018QSZZ RMOTP0021QSZZ RMPTW4000QCJJ RMPTW4103QCJJ RMPTW4203QCJJ RMPTW422QCJJ RMPTW433QCJJ RMPTW433QCJZ RPLU-0007QSZZ RPLU-0008QSZZ RPLU-0009QSZZ RRLYD3222QCZZ	572         630         0965           572         630         0968           572         630         0970           594         631         0096           571         631         0147           572         631         0262           572         631         0254           567         631         0058           572         647         0330           572         647         0331           572         647         0332	6- 5 10- 7 14- 59 4- 30 18- 41 18- 42 18- 43 18- 44 18- 45 13- 28 10- 16 10- 10	AY BH AV BB AB AB AA AB AA AB AN AN	FQ GX FG GD DD DD DD DD EG EG	N N N N N	B B B B B B B B B B B B B B B B
RMOTP0018QSZZ RMOTP0021QSZZ RMPTW4000QCJJ RMPTW4103QCJJ RMPTW422QCJJ RMPTW4330QCJJ RMPTW4330QCJJ RPLU-0007QSZZ RPLU-0008QSZZ RPLU-0009QSZZ RRLYD322QCZZ	572         630         0965           572         630         0968           572         630         0970           594         631         0096           571         631         0147           572         631         0262           572         631         0254           567         631         0058           572         647         0330           572         647         0331           572         637         0139	6- 5 10- 7 14- 59 4- 30 18- 41 18- 42 18- 43 18- 44 18- 45 13- 28 10- 16 10- 10 29- 8	AY BH AV BB AB AB AA AB AN AN AN AL	FQ GX FG DD DD DD DD DD EG EG EG	N N N N N N N N N N N N N N N N N N N	B B B B B B B B B B B B B B B B B B B
RMOTP0018QSZZ RMOTP0021QSZZ RMPTW4000QCJJ RMPTW4103QCJJ RMPTW4223QCJJ RMPTW4222QCJJ RMPTW4330QCJJ RPLU-0007QSZZ RPLU-0008QSZZ RPLU-0009QSZZ RRLYD3222QCZZ [S] SPAKA0083QSZZ	572         630         0965           572         630         0968           572         630         0970           594         631         0096           571         631         0147           572         631         0262           572         631         0058           572         647         0330           572         647         0331           572         647         0332           572         637         0139           572         902         1460	6- 5 10- 7 14- 59 4- 30 18- 41 18- 42 18- 43 18- 44 18- 45 13- 28 10- 16 10- 10 29- 8	AY BH AV BB AB AB AA AB AN AN AN AL	FQ GX FG DD DD DD DD DD EG EG EG EB	N N N N N N N N N N N N N N N N N N N	B B B B B B B B B B B D
RMOTP0018QSZZ RMOTP0021QSZZ RMPTW4000QCJJ RMPTW4103QCJJ RMPTW422QCJJ RMPTW4330QCJJ RMPTW4330QCJJ RPLU-0007QSZZ RPLU-0008QSZZ RPLU-0009QSZZ RRLYD322QCZZ	572         630         0965           572         630         0968           572         630         0970           594         631         0096           571         631         0147           572         631         0262           572         631         0254           567         631         0058           572         647         0330           572         647         0331           572         637         0139	6- 5 10- 7 14- 59 4- 30 18- 41 18- 42 18- 43 18- 44 18- 45 13- 28 10- 16 10- 10 29- 8	AY BH AV BB AB AB AA AB AN AN AN AL	FQ GX FG DD DD DD DD DD EG EG EG	N N N N N N N N N N N N N N N N N N N	B B B B B B B B B B B B B B B B B B B
RMOTP0018QSZZ RMOTP0021QSZZ RMPTW4000QCJJ RMPTW4103QCJJ RMPTW4223QCJJ RMPTW4222QCJJ RMPTW4330QCJJ RPLU-0007QSZZ RPLU-0008QSZZ RPLU-0009QSZZ RRLYD3222QCZZ [S] SPAKA0083QSZZ	572         630         0965           572         630         0968           572         630         0970           594         631         0096           571         631         0147           572         631         0262           572         631         0058           572         647         0330           572         647         0331           572         647         0332           572         637         0139           572         902         1460	6- 5 10- 7 14- 59 4- 30 18- 41 18- 42 18- 43 18- 44 18- 45 13- 28 10- 16 10- 10 29- 8	AY BH AV BB AB AB AA AB AN AN AN AL	FQ GX FG DD DD DD DD DD EG EG EG EB	N N N N N N N N N N N N N N N N N N N	B B B B B B B B B B B D
RMOTP0018QSZZ RMOTP0021QSZZ RMPTW4000QCJJ RMPTW4103QCJJ RMPTW4203QCJJ RMPTW422QCJJ RMPTW4330QCJJ RPLU-0007QSZZ RPLU-0008QSZZ RPLU-0009QSZZ RPLU-0009QSZZ RPLU-0009QSZZ RSPLU-0009QSZZ RSPLU-0009QSZZ RSPLU-0009QSZZ RSPLU-0009QSZZ RSPAKA0131QSZZ	572         630         0965           572         630         0968           572         630         0970           594         631         0096           571         631         0147           572         631         0262           572         631         0254           567         631         0058           572         647         0330           572         647         0332           572         637         0139           572         902         1460           572         902         1482           572         902         1483	6- 5 10- 7 14- 59 4- 30 18- 41 18- 42 18- 43 18- 45 13- 28 10- 16 10- 10 29- 8	AY BH AV BB AB AB AA AB AN AN AN AL  AX BA AT	FQ GX FG GD DD DD DD DD EG EG EB FG FX EZ	X	B B B B B B B B B D D
RMOTP0018QSZZ RMOTP0021QSZZ RMOTP0021QSZZ RMPTW4000QCJJ RMPTW4103QCJJ RMPTW4223QCJJ RMPTW422QCJJ RMPTW4330QCJJ RPLU-0007QSZZ RPLU-0008QSZZ RPLU-0009QSZZ RPLU-0008QSZZ RPLU-0009QSZZ SPAKA0083QSZZ SPAKA0131QSZZ SPAKA0131QSZZ	572         630         0965           572         630         0968           572         630         0970           594         631         0096           571         631         0147           572         631         0262           572         631         0254           567         631         0058           572         647         0330           572         647         0332           572         637         0139           572         902         1460           572         902         1482           572         902         1483           572         902         1472	6- 5 10- 7 14- 59 4- 30 18- 41 18- 42 18- 43 18- 44 18- 45 13- 28 10- 16 10- 10 29- 8 17- 4 17- 16 17- 3 17- 2	AY BH AV BB AB AB AA AB AN AN AN AL AX BA AT AR	FQ GX FG GD DD DD DD DD EG EG EG EB	X	B B B B B B B B B D D D
RMOTP0018QSZZ RMOTP0021QSZZ RMOTP0021QSZZ RMPTW4000QCJJ RMPTW4103QCJJ RMPTW4203QCJJ RMPTW422QCJJ RMPTW4330QCJJ RPLU-0007QSZZ RPLU-0008QSZZ RPLU-0009QSZZ RPLU-0009QSZZ RSAKA0132QSZZ SPAKA0131QSZZ SPAKA0132QSZZ SPAKA0133QSZZ	572         630         0965           572         630         0968           572         630         0970           594         631         0096           571         631         0147           572         631         0254           567         631         0058           572         647         0330           572         647         0332           572         647         0332           572         637         0139           572         902         1460           572         902         1482           572         902         1483           572         902         1443           572         902         1472           572         902         1473	6- 5 10- 7 14- 59 4- 30 18- 41 18- 42 18- 43 18- 44 18- 45 13- 28 10- 16 10- 10 29- 8 17- 4 17- 16 17- 3 17- 2 17- 14	AY BH AV BB AB AB AA AB AN AN AN AL AX BA AT AR	FQ GX FG GD DD DD DD DD EG EG EB FG FX EZ EQ	X	B B B B B B B B B D D
RMOTP0018QSZZ RMOTP0021QSZZ RMOTP0021QSZZ RMPTW4000QCJJ RMPTW4103QCJJ RMPTW4223QCJJ RMPTW422QCJJ RMPTW4330QCJJ RPLU-0007QSZZ RPLU-0008QSZZ RPLU-0009QSZZ RPLU-0008QSZZ RPLU-0009QSZZ SPAKA0083QSZZ SPAKA0131QSZZ SPAKA0131QSZZ	572         630         0965           572         630         0968           572         630         0970           594         631         0096           571         631         0147           572         631         0262           572         631         0254           567         631         0058           572         647         0330           572         647         0332           572         637         0139           572         902         1460           572         902         1482           572         902         1483           572         902         1472	6- 5 10- 7 14- 59 4- 30 18- 41 18- 42 18- 43 18- 44 18- 45 13- 28 10- 16 10- 10 29- 8 17- 4 17- 16 17- 3 17- 2	AY BH AV BB AB AB AA AB AN AN AN AL AX BA AT AR	FQ GX FG GD DD DD DD DD EG EG EG EB	X	B B B B B B B B D D D
RMOTP0018QSZZ RMOTP0021QSZZ RMPTW4000QCJJ RMPTW4103QCJJ RMPTW422QCJJ RMPTW4330QCJJ RMPTW4330QCJJ RPLU-0007QSZZ RPLU-0008QSZZ RPLU-0009QSZZ RPLU-0009QSZZ RSPLU-0009QSZZ RSPLU-0009QSZZ RSPLU-0009QSZZ RPLU-0009QSZZ RRLYD322ZQCZZ SPAKA0133QSZZ SPAKA0133QSZZ SPAKA0133QSZZ SPAKA0133QSZZ SPAKA0134QSZZ	572         630         0965           572         630         0968           572         630         0970           594         631         0096           571         631         0147           572         631         0262           572         631         0254           567         631         0058           572         647         0330           572         647         0331           572         637         0139           572         902         1460           572         902         1482           572         902         1483           572         902         1473           572         902         1473           572         902         1474	6- 5 10- 7 14- 59 4- 30 18- 41 18- 42 18- 43 18- 44 18- 45 13- 28 10- 16 10- 10 29- 8 17- 4 17- 16 17- 3 17- 2 17- 14	AY BH AV BB AB AB AA AB AN AN AN AL AX BA AT AR AG AE	FQ GX FG GD DD DD DD DD DD EG EG EB FX EZ EQ DS DJ	Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	B B B B B B B B D D D D D D D D D D
RMOTP0018QSZZ RMOTP0021QSZZ RMOTP0021QSZZ RMPTW4000QCJJ RMPTW4103QCJJ RMPTW4222QCJJ RMPTW4330QCJJ RMPTW4330QCJJ RPLU-0007QSZZ RPLU-0008QSZZ RPLU-0009QSZZ RRLYD3222QCZZ [S] SPAKA0132QSZZ SPAKA0131QSZZ SPAKA0131QSZZ SPAKA0134QSZZ SPAKA0134QSZZ SPAKA0134QSZZ SPAKA0134QSZZ SPAKA0150QSZZ	572         630         0965           572         630         0968           572         630         0970           594         631         0096           571         631         0147           572         631         0262           572         631         0058           572         647         0330           572         647         0331           572         647         0332           572         637         0139           572         902         1460           572         902         1483           572         902         1473           572         902         1473           572         902         1474           572         902         1474           572         902         1474           572         902         1474           572         902         1474           572         902         1474           572         902         1485	6- 5 10- 7 14- 59 4- 30 18- 41 18- 42 18- 43 18- 44 18- 45 13- 28 10- 16 10- 10 29- 8 17- 4 17- 16 17- 3 17- 2 17- 14 17- 7	AY BH AV BB AB AB AA AB AN AN AN AL AX BA AT AR AG AF	FQ GX FG GD DD DD DD DD DD EG EG EB EB FX EZ EQ DS DJ DS	Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	B B B B B B B B D D D D D D D D D D D D
RMOTP0018QSZZ RMOTP0021QSZZ RMOTP0021QSZZ RMPTW4000QCJJ RMPTW4103QCJJ RMPTW4223QCJJ RMPTW4330QCJJ RPLU-0007QSZZ RPLU-0009QSZZ RPLU-0009QSZZ RPLU-0009QSZZ RSAKA0130QSZZ SPAKA0131QSZZ SPAKA0131QSZZ SPAKA0133QSZZ SPAKA0133QSZZ SPAKA0134QSZZ SPAKA0134QSZZ SPAKA0150QSZZ SPAKA0150QSZZ SPAKA0150QSZZ SPAKA0150QSZZ	572         630         0965           572         630         0968           572         630         0970           594         631         0096           571         631         0147           572         631         0254           567         631         0058           572         647         0330           572         647         0331           572         647         0332           572         637         0139           572         902         1460           572         902         1482           572         902         1483           572         902         1472           572         902         1474           572         902         1474           572         902         1474           572         902         1485           572         901         1500	6- 5 10- 7 14- 59 4- 30 18- 41 18- 42 18- 43 18- 44 18- 45 13- 28 10- 16 10- 10 29- 8 17- 4 17- 16 17- 3 17- 2 17- 14 17- 7 17- 17	AY BH AV BB AB AB AA AB AN AN AN AL AX BA AR AG AF AY	FQ GX FG GD DD DD DD DD EG EG EB FG EB FC EZ EQ DS DJ DS FQ	X	B B B B B B B B D D D D D D D D D D D D
RMOTP0018QSZZ RMOTP0021QSZZ RMOTP0021QSZZ RMPTW4000QCJJ RMPTW4103QCJJ RMPTW4222QCJJ RMPTW4330QCJJ RMPTW4330QCJJ RPLU-0007QSZZ RPLU-0008QSZZ RPLU-0009QSZZ RRLYD3222QCZZ [S] SPAKA0132QSZZ SPAKA0131QSZZ SPAKA0131QSZZ SPAKA0134QSZZ SPAKA0134QSZZ SPAKA0134QSZZ SPAKA0134QSZZ SPAKA0150QSZZ	572         630         0965           572         630         0968           572         630         0970           594         631         0096           571         631         0147           572         631         0262           572         631         0058           572         647         0330           572         647         0331           572         647         0332           572         637         0139           572         902         1460           572         902         1483           572         902         1473           572         902         1473           572         902         1474           572         902         1474           572         902         1474           572         902         1474           572         902         1474           572         902         1474           572         902         1485	6- 5 10- 7 14- 59 4- 30 18- 41 18- 42 18- 43 18- 44 18- 45 13- 28 10- 16 10- 10 29- 8 17- 4 17- 16 17- 3 17- 2 17- 14 17- 7	AY BH AV BB AB AB AA AB AN AN AN AL AX BA AT AR AG AF	FQ GX FG GD DD DD DD DD EG EG EB FG FX EZ EQ DS DJ DS	Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	B B B B B B B B D D D D D D D D D D D D
RMOTP0018QSZZ RMOTP0021QSZZ RMOTP0021QSZZ RMPTW4000QCJJ RMPTW4103QCJJ RMPTW4203QCJJ RMPTW422QCJJ RMPTW4330QCJJ RPLU-0007QSZZ RPLU-0008QSZZ RPLU-0009QSZZ RPLU-0009QSZZ RSAKA0130QSZZ SPAKA0131QSZZ SPAKA0131QSZZ SPAKA0131QSZZ SPAKA0134QSZZ SPAKA0134QSZZ SPAKA0134QSZZ SPAKA0150QSZZ SPAKA0150QSZZ SPAKA0150QSZZ SPAKA0150QSZZ SPAKA0150QSZZ SPAKC0091QSI1 SPAKC0091QSZZ	572         630         0965           572         630         0968           572         630         0970           594         631         0096           571         631         0147           572         631         0254           567         631         0058           572         647         0330           572         647         0331           572         647         0332           572         637         0139           572         902         1460           572         902         1482           572         902         1483           572         902         1472           572         902         1473           572         902         1473           572         902         1485           572         901         1500           572         901         1468	6- 5 10- 7 14- 59 4- 30 18- 41 18- 42 18- 43 18- 44 18- 45 13- 28 10- 16 10- 10 29- 8 17- 4 17- 16 17- 3 17- 2 17- 14 17- 7 17- 17 17- 1	AY BH AV BB AB AB AA AB AN AN AN AN AL AX BA AT AR AG AG AF AY	FQ GX FG GD DD DD DD DD EG EG EB FX EZ EQ DS DJ DS FQ FQ		B B B B B B B B D D D D D D D D D D D D
RMOTP0018QSZZ RMOTP0021QSZZ RMOTP0021QSZZ RMPTW4000QCJJ RMPTW4103QCJJ RMPTW4203QCJJ RMPTW422QCJJ RMPTW4330QCJJ RPLU-0007QSZZ RPLU-0008QSZZ RPLU-0009QSZZ RPLU-0008QSZZ RPLU-0009QSZZ RSPLU-0009QSZZ RPLU-0009QSZZ RPLU-0009QSZZ SPAKA0131QSZZ SPAKA0131QSZZ SPAKA0131QSZZ SPAKA0134QSZZ SPAKA0134QSZZ SPAKA0134QSZZ SPAKA0134QSZZ SPAKA0150QSZZ SPAKA0150QSZZ SPAKA0150QSZZ SPAKA01000QS12	572         630         0965           572         630         0968           572         630         0970           594         631         0096           571         631         0147           572         631         0262           572         631         0254           567         631         0058           572         647         0330           572         647         0332           572         637         0139           572         902         1460           572         902         1482           572         902         1483           572         902         1472           572         902         1473           572         902         1474           572         902         1474           572         902         1485           572         901         1500           572         901         1500           572         901         1501	6- 5 10- 7 14- 59 4- 30 18- 41 18- 42 18- 43 18- 44 18- 45 10- 16 10- 10 29- 8 17- 4 17- 16 17- 3 17- 2 17- 14 17- 7 17- 17 17- 1 17- 1	AY BH AV BB AB AB AAB AN AN AN AL AX BA AT AR AG AF AY AY	FQ   GX   FG   GD   DD   DD   DD   DD   DD   DD		B B B B B B B B B D D D D D D D D D D D
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RMOTP0018QSZZ RMOTP0021QSZZ RMOTP0021QSZZ RMPTW4000QCJJ RMPTW4103QCJJ RMPTW4203QCJJ RMPTW422QCJJ RMPTW4330QCJJ RPLU-0007QSZZ RPLU-0008QSZZ RPLU-0009QSZZ RPLU-0008QSZZ RPLU-0009QSZZ RSPLU-0009QSZZ RPLU-0009QSZZ RPLU-0009QSZZ SPAKA0131QSZZ SPAKA0131QSZZ SPAKA0131QSZZ SPAKA0134QSZZ SPAKA0134QSZZ SPAKA0134QSZZ SPAKA0134QSZZ SPAKA0150QSZZ SPAKA0150QSZZ SPAKA0150QSZZ SPAKA01000QS12	572         630         0965           572         630         0968           572         630         0970           594         631         0096           571         631         0147           572         631         0262           572         631         0254           567         631         0058           572         647         0330           572         647         0332           572         637         0139           572         902         1460           572         902         1482           572         902         1483           572         902         1472           572         902         1473           572         902         1474           572         902         1474           572         902         1485           572         901         1500           572         901         1500           572         901         1501	6- 5 10- 7 14- 59 4- 30 18- 41 18- 42 18- 43 18- 44 18- 45 10- 16 10- 10 29- 8 17- 4 17- 16 17- 3 17- 2 17- 14 17- 7 17- 17 17- 1 17- 1	AY BH AV BB AB AB AAB AN AN AN AL AX BA AT AR AG AF AY AY	FQ   GX   FG   GD   DD   DD   DD   DD   DD   DD		B B B B B B B B D D D D D D D D D D D D
RMOTP0018QSZZ RMOTP0021QSZZ RMOTP0021QSZZ RMPTW4000QCJJ RMPTW4103QCJJ RMPTW4222QCJJ RMPTW4330QCJJ RMPTW4330QCJJ RPLU-0007QSZZ RPLU-0008QSZZ RPLU-0009QSZZ RPLU-0009QSZZ RRLYD3222QCZZ [S] SPAKA0130QSZZ SPAKA0131QSZZ SPAKA0131QSZZ SPAKA0134QSZZ SPAKA0134QSZZ SPAKA0134QSZZ SPAKA0134QSZZ SPAKA0134QSZZ SPAKA0150QSZZ SPAKA0150QSZZ SPAKA0100QS11 SPAKC0100QS13 SPAKC0100QS14	572         630         0965           572         630         0968           572         630         0970           594         631         0096           571         631         0147           572         631         0262           572         631         0254           567         631         0058           572         647         0330           572         647         0331           572         647         0332           572         637         0139           572         902         1482           572         902         1482           572         902         1483           572         902         1473           572         902         1474           572         902         1485           572         901         1500           572         901         1500           572         901         1501           572         901         1501           572         901         1502           572         901         1503           572         901	6- 5 10- 7 14- 59 4- 30 18- 41 18- 42 18- 43 18- 44 18- 45 13- 28 10- 16 10- 10 29- 8 17- 4 17- 16 17- 3 17- 2 17- 17 17- 17 17- 1 17- 1 17- 1	AY BH AV BB AB AB AA AB AN AN AN AL AX BA AG	FQ GX FG GDD DD DD DD DD EG EG EB FG FX EZ EQ DS DJ DS FQ FQ FQ FQ		B B B B B B B B B B B B B B B B B B B
RMOTP0018QSZZ RMOTP0021QSZZ RMOTP0021QSZZ RMPTW4000QCJJ RMPTW4103QCJJ RMPTW4203QCJJ RMPTW422QCJJ RMPTW4330QCJJ RPLU-0007QSZZ RPLU-0008QSZZ RPLU-0008QSZZ RPLU-0009QSZZ RSPLU-0009QSZZ RSPLU-0009QSZZ RSPLU-0009QSZZ RSPAKA0130QSZZ SPAKA0131QSZZ SPAKA0131QSZZ SPAKA0131QSZZ SPAKA0134QSZZ SPAKA0134QSZZ SPAKA0130QSZZ SPAKA0130QSZZ SPAKA0130QSZZ SPAKA0130QSZZ SPAKA0131QSZZ SPAKA0131QSZZ SPAKA0131QSZZ SPAKA0131QSZZ SPAKA0131QSZZ SPAKA0131QSZZ SPAKA0130QSZZ SPAKA0130QSZZ SPAKA0130QSZZ SPAKA0130QSZZ SPAKA0130QSZZ SPAKC0091QS11 SPAKC0091QS12 SPAKC0100QS13	572         630         0965           572         630         0968           572         630         0970           594         631         0096           571         631         0147           572         631         0254           567         631         0058           572         647         0330           572         647         0332           572         637         0139           572         902         1460           572         902         1482           572         902         1472           572         902         1472           572         902         1474           572         902         1485           572         901         1500           572         901         1468           572         901         1501           572         901         1501	6- 5 10- 7 14- 59 4- 30 18- 41 18- 42 18- 43 18- 44 18- 45 13- 28 10- 16 10- 10 29- 8 17- 4 17- 16 17- 3 17- 2 17- 17 17- 17 17- 1 17- 1 17- 1	AY BH AV BB AB AA AB AA AN AN AL AX BA AT AR AG AG AY AY AY	FQ   GX   FG   GD   DD   DD   DD   DD   DD   DD		B B B B B B B B B B B B B B B B B B B

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PARTS CODE	JAPAN ONLY	NO.		E R.	NEW	P/R
	ORDER CODE		Ex.	Ja.		
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TCAUA0770FCZZ	572 913 0021	17- 8 1- 32	AC AB	DD		D C
TCAUH0007QSZZ	572 914 0635	6- 48	AD	DJ		С
TCAUH0819FCZZ	572 914 0575	3- 19	AA	DD		C
TiNSE0115QSZZ	572 916 1577	17- 18	AS	EQ	N	D
TiNSE0116QSZZ	572 916 1579	17- 18	AS	EQ	N	D
TiNSF0117QSZZ	572 916 1580	17- 18	BA	FX	N	D
TiNSG0118QSZZ	572 916 1581	17- 18	BB	GD	N	D
TiNSi0120QSZZ	572 916 1582	17- 18	AT	ΕZ	N	D
TiNSJ0114QSZZ	572 916 1578	17- 18	AX	ZZ	N	D
TiNSS0119QSZZ	572 916 1583	17- 18	AY	FQ	N	D
TiNSZ0121QSZZ	572 916 1584	17- 18	AY	FQ	N	D
TiNSZ0122QSZZ TLABH0061QSZZ	572 916 1585 572 917 3359	17- 18	AY	FQ	N	D
TLABH0061QSZZ	572 917 3359 572 917 3360	9- 39 9- 39	AΕ	DJ	N N	С
TLABH0064QSZ1	572 917 3369	9- 39 16- 8	AE AC	DJ	N	С
TLABH0065QSZZ	572 917 3309	17- 13		_		
TLABH0065QSZ2	572 917 3370	13- 44	AN AE	EG DJ	N N	C
TLABH0068QSZZ	572 917 3373	17-101	AF	DS	N	С
TLABH0069QSZZ	572 917 3373	17-101	AN	EG	N	C
TLABH0078QSZZ	572 917 3374	17-101	AF	DS	N	C
TLABH0103QSZZ	572 917 3375	1- 30	AE	DS	N	C
TLABH0104QSZZ	572 917 3376	1- 31	AE	DS	N	C
TLABH0107QSZZ	572 917 3377	1- 35	AG	DX	N	C
TLABH0108QSZZ	572 917 3378	1- 35	AG	DX	N	C
TLABH0264GCZZ	578 917 0363	1- 33	AC	DJ		C
TLABZ0058QSZZ	572 917 3341	1- 34	AD	DJ		C
TLABZ1721FCZZ	572 917 1857	8- 5	AA	DD		С
TTAG-0004QSZZ	572 921 0003	16- 19	AC	DJ	N	D
//	572 921 0003	17- 11	AC	DJ	N	D
[U]						
UBAGF0018YSZ1	572 931 0023	17- 6	AF	DS	N	D
UCLEZ0009QSZZ	572 704 0074	7- 3	AV	FG	N	С
UCLEZ0010QSZZ	572 704 0075	7- 16	AR	EQ	N	С
[V]	507 504 5000	40 40				•
VCCCCY1HH101J	507 591 5030	18- 49	AA	DD		С
VCCCCY1HH120J	594 593 0047	18- 47	AA	DD		С
VCCCCY1HH150J	594 593 0048	19- 8	AB	DD		С
VCCCCY1HH180J	594 593 0183	18- 48	AA	DD		С
VCCCCY1HH300J VCCUCY1AJ105Z	594 593 0051 596 593 0899	19- 9	AB	DD		С
//	596 593 0899	18- 50 19- 13	AC AC	DD DD		С
VCEAGA1VW106M	572 594 0093	18- 56	AA	DD		С
VCEAGU1CW106M	571 594 0095	18- 51	AA	DD		C
VCEAGU1CW107M	541 591 5286	18- 52	AB	DD		C
VCEAGU1CW226M	541 591 5060	18- 53	AA	DD		C
VCEAGU1CW476M	541 591 5063	18- 54	AB	DD		C
VCEAGU1HW107M	505 591 5012	18- 55	AC	DD		C
VCEAGU1VW476M	579 594 0046	18- 57	AB	DD		C
//	579 594 0046	28- 6	AB	DD		С
VCEAJU1CW476M	596 594 0062	19- 10	AB	DD		C
VCKYCY1EB223K	595 593 1253	18- 58	AA	DD		С
VCKYCY1EF104Z	507 591 5036	18- 59	AA	DD		С
VCKYCY1HB102K	594 593 0044	18- 60	AA	DD	N	С
// VCKVCV411B000K	594 593 0044	19- 11	AA	DD	N	С
VCKYCY1HB222K	595 593 0027	18- 61	AA	DD		С
VCKYCY1HB471K	571 593 0179	18- 62	AB	DD		С
VCKYCY1HF103Z VCKYCY1HF223Z	594 593 0071	19- 12	AA	DD		С
VCKYCY1HF223Z VCKYPU1HB102K	594 593 0072 541 595 1004	19- 14 20- 3	AA	DD		С
VCKYPUTHBTU2K	541 595 1004	20- 3	AA	DD DD		
"	541 595 1004	22- 3	AA	DD		C
"	541 595 1004	23- 3	AA	DD		С
"	541 595 1004	24- 3	AA	DD		С
//	541 595 1004	28- 7	AA	DD		C
//	541 595 1004	30- 3	AA	DD		C
VHD1N4005E/-1	572 570 0480	18-116	AB	DJ		В
VHDDSS133//-1	500 570 5006	18- 63	AA	DD		В
//	500 570 5006	19- 15	AA	DD		В
//	500 570 5006	29- 9	AA	DD		В
	E71 E71 0160	18- 64	AB	DD		В
VHERD20EB3/-1	571 571 0169			D 1	1	В
VHEUDZS5.6B-1	594 571 0179	18- 65	AC	DJ		
VHEUDZS5.6B-1 VHi16163CLT-6	594 571 0179 572 573 1771	18-115	BA	FX	N	В
VHEUDZS5.6B-1 VHi16163CLT-6 VHi29F400BCA1	594 571 0179 572 573 1771 572 573 1860	18-115 18- 81	BA BA	FX FX	N	B B
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VHEUDZS5.6B-1 VHi16163CLT-6 VHi29F400BCA1 VHi29F400BCB1	594 571 0179 572 573 1771 572 573 1860 572 573 1861	18-115 18- 81 18- 81	BA BA BA	FX FX FX	N N	B B B

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VHi74VHC08/-1	572 573 1476		AE	DS		В
VHiH8/3643/-1	572 573 1820		AU	EZ	N	В
VHiH8S/2350FP	572 573 1020		AY	FQ	IN	В
VH i HG73C025FD	572 573 1767		BE	GN		В
VH1LM358PS/-S	572 573 0399		AC	DJ		В
VH i M24C04BN6/	572 573 1852		AG	DX	N	В
VH i M51953BL-1	588 573 0032		AF	DS	IN	В
VH i M66236FP-1	572 573 1791	_	AT	EZ		В
VH i MC 7 8 0 5 CT - 2	572 573 1080	_	AE	DS		В
VH i N J M 2 9 0 3 M / -	572 573 0025		AD	DJ		В
VH i N J M 3 4 1 4 M - 1	571 573 1448		AF	DX		В
VH i SC65165V6T	596 573 2808		BW	RR	N	В
VHISLA7027MUL	578 573 0932		AQ	EQ	IN	В
VHiSTA401A/-1	572 576 0006		AP	EQ		В
//	572 576 0006		AP	EQ		В
VHiTA7291S/-1	572 573 0188		AF	DS		В
VHiTB62706AN/	572 573 1825		AS	EQ	N	В
VHiTC74ACT32F	567 573 1044		AF	DS	IN	В
VHiTD62503F/-	572 573 0907		AG	DX		В
					N.I.	
VH i TD 6 2 7 8 5 F / / VH i UL N 2 0 0 3 A N 1			AN	EQ	N	В
	572 573 0829		AE	DJ		В
VHiW24258A12J	572 573 1880		AN	EG	N	В
VHPGP1S53V/-1	578 574 0031		AE	DS		В
<i>"</i>	578 574 0031		AE	DS		В
"	578 574 0031	22- 4	AE	DS		В
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VHPLTC3650G01	572 574 0314		AQ	EQ		В
VHPMPG3864K-J	572 574 0298		AC	DJ		В
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VHPMVR3864K-J	572 574 0299		AC	DJ		В
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VRD-HT2EY103J	505 581 5044		AA	DD		С
VRD-HT2EY151J	541 581 5470	_	AA	DD		С
VRD-HT2EY222J	590 581 0041	_	AA	DD		С
VRD-RC2EY161J	572 580 0612		AA	DD		С
VRS-CY1JD000J	507 581 5050		AA	DD		С
//	507 581 5050		AA	DD		С
VRS-CY1JD100J	596 581 0256		AA	DD		С
VRS-CY1JD101J	596 581 0257		AA	DD		С
VRS-CY1JD102J	571 581 0007		AA	DD		С
VRS-CY1JD103F	521 581 0049		AB	DD		С
VRS-CY1JD103J	500 581 5097		AA	DD		С
//	500 581 5097	_	AA	DD		С
VRS-CY1JD105J	507 581 5052		AA	DD		С
VRS-CY1JD123J	571 581 0008		AA	DD		С
VRS-CY1JD203J	571 581 0006		AA	DD		С
VRS-CY1JD205J	521 581 0006		AA	DD		С
VRS-CY1JD220F	572 581 1882		AA	DD	N	С
VRS-CY1JD221J	500 581 5111		AA	DD		С
VRS-CY1JD242F	594 581 0819		AA	DD		С
VRS-CY1JD242J	596 581 2169		AA	DD		С
	596 581 0263	18-103		DD		С
VRS-CY1JD330J			AA			-
VRS-CY1JD331J	585 581 0468	18-104	AA	DD		С
VRS-CY1JD331J VRS-CY1JD471J	585 581 0468 571 581 0002	18-104 19- 27	AA AA	DD DD		С
VRS-CY1JD331J VRS-CY1JD471J VRS-CY1JD472J	585 581 0468 571 581 0002 595 581 0069	18-104 19- 27 18-105	AA AA AA	DD DD DD		CC
VRS-CY1JD331J VRS-CY1JD471J VRS-CY1JD472J VRS-CY1JD473J	585 581 0468 571 581 0002 595 581 0069 507 581 5058	18-104 19- 27 18-105 18-106	AA AA AA	DD DD DD DD		CCC
VRS-CY1JD331J VRS-CY1JD471J VRS-CY1JD472J VRS-CY1JD473J VRS-CY1JD511J	585 581 0468 571 581 0002 595 581 0069 507 581 5058 595 581 0110	18-104 19- 27 18-105 18-106 18- 96	AA AA AA AA	DD DD DD DD		C C C
VRS-CY1JD331J VRS-CY1JD471J VRS-CY1JD472J VRS-CY1JD473J VRS-CY1JD511J VRS-CY1JD680J	585 581 0468 571 581 0002 595 581 0069 507 581 5058 595 581 0110 507 581 0008	18-104 19- 27 18-105 18-106 18- 96 18- 94	AA AA AA AA AA	DD DD DD DD DD DD		0 0 0
VRS-CY1JD331J VRS-CY1JD471J VRS-CY1JD472J VRS-CY1JD473J VRS-CY1JD511J VRS-CY1JD680J VRS-RE3DA131J	585 581 0468 571 581 0002 595 581 0069 507 581 5058 595 581 0110 507 581 0005 578 581 0266	18-104 19- 27 18-105 18-106 18- 96 18- 94 18-108	AA AA AA AA AA AC	DD DD DD DD DD DD DD		0 0 0
VRS-CY1JD331J VRS-CY1JD471J VRS-CY1JD472J VRS-CY1JD473J VRS-CY1JD511J VRS-CY1JD680J VRS-RE3DA131J VRS-RE3DA1R0J	585 581 0468 571 581 0002 595 581 0069 507 581 5058 595 581 0110 507 581 0005 578 581 0266 578 581 0219	18-104 19- 27 18-105 18-106 18- 96 18- 94 18-108 18-107	AA AA AA AA AA AC AB	DD DD DD DD DD DD DD DD DD		000000
VRS-CY1JD331J VRS-CY1JD471J VRS-CY1JD472J VRS-CY1JD473J VRS-CY1JD511J VRS-CY1JD680J VRS-RE3DA131J VRS-RE3DA1R0J VRS-TP2BD221J	585 581 0468 571 581 0002 595 581 0065 597 581 5058 595 581 0116 507 581 0006 578 581 0266 578 581 0268 578 581 0218	18-104 19- 27 18-105 18-106 18- 96 18- 94 18-108 18-107 18-109	AA AA AA AA AA AC AB	DD		0 0 0 0 0
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VRS-CY1JD331J VRS-CY1JD471J VRS-CY1JD472J VRS-CY1JD473J VRS-CY1JD511J VRS-CY1JD680J VRS-RE3DA131J VRS-RE3DA1R0J VRS-TP2BD221J VRS-TP2BD472J VRS-TP2BD473J VRS-TP2BD6R8J	585 581 0468 571 581 0002 595 581 0068 507 581 5056 595 581 0110 507 581 0026 578 581 0218 570 581 0218 500 581 0383 500 581 0384 572 581 1881	18-104 19- 27 18-105 18-106 18- 96 18- 94 18-107 18-109 18-110 18-111 19- 28	AA AA AA AA AC AB AB AA AA AA	DD	N	
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//	578 970 0102	15- 17	AA	DD		С
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XWHSD30-05080	500 990 0026	12- 48	AA	DD		C
XWHSD30-08100	505 990 5001	16- 13	AA	DD		<u>C</u>
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		26- 87				_
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	572 573 1856		AT	EZ	N	В
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0KY0H130A012/		26- 23 26- 24		FΩ	N	
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0KY0H141A001/ 0KY0H153A001/ 0KY0H719A001/ 0KY0H723A001/ 0KY0H725A001/ 0KY0K202B003/ 0KY0K219B003/	572 573 1857 572 573 1858 572 568 0098 572 568 0100 572 568 0099 572 510 1065 572 510 1066	26- 24 26- 25 26- 26 26- 26 26- 27 26-116 26-117	AZ AP AN AP AV AG AS	EQ EQ FG DX EZ	N N N N N	B B B C C
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0KY0H141A001/ 0KY0H153A001/ 0KY0H719A001/ 0KY0H723A001/ 0KY0H725A001/ 0KY0K202B003/ 0KY0K219B003/ 0KY0K219B004/ 0KY0K219B006/ 0KY0K235B002/ 0KY0K236B026/ 0KY0K251A002/	572 573 1857 572 573 1858 572 568 0098 572 568 0100 572 568 0099 572 510 1065 572 510 1066 572 510 1066 572 510 1068 572 510 1069 572 510 1070 572 510 1070	26- 24 26- 25 26- 26 26- 26 26- 27 26-116 26-117 26-118 26-120 26-121 26-121	AZ AP AN AP AV AG AS AU AX AN AR AG	EQ EG EQ FG DX EZ EZ EG EG	N N N N N N N N N N N N N N N N N N N	B B B C C C C C
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DKYOL107R202/ 572 614 0257			26-106	BD	GN	N	С
DKYOL1112R502/ 572 614 0261   26-125   BB GD N C							
OKYOL 11							-
OKYOL 20 0Q 03 6 / S72 660 0422         22e-108         BF GN N B           OKYOL 20 0Q 03 6 2         572 660 0421         26-108         BE GN N B           OKYOL 31 3R 00 1 / 572 614 0258         26-123         AH DX N C           OKYOL 55 1 A0 00 1 / 572 621 0045         26-109         AE DS N B           OKYOL 55 1 A0 00 1 / 572 621 0046         26-110         AF DS N B           OKYOL 55 2 A0 1 / 572 580 1149         26-311         AE DS N B           OKYOR 15 3U 10 2 / 572 580 1149         26-31         AC DJ N C           OKYOR 15 3U 10 2 / 572 580 1150         26-37         AC DJ N C           OKYOR 15 3U 10 3 / 572 580 1151         26-37         AC DJ N C           OKYOR 15 3U 10 5 / 572 580 1153         26-52         AC DJ N C           OKYOR 15 3U 15 / 572 580 1153         26-52         AC DJ N C           OKYOR 15 3U 15 / 572 580 1153         26-52         AC DJ N C           OKYOR 15 3U 15 / 572 580 1153         26-53         AC DJ N C           OKYOR 15 3U 15 / 572 580 1153         26-34         AC DJ N C           OKYOR 15 3U 15 / 572 580 1153         26-34         AC DJ N C           OKYOR 15 3U 22 1 / 572 580 1153         26-34         AC DJ N C           OKYOR 15 3U 22 1 / 572 580 1153         26-43         AC DJ N C							
OKYOL 20 00 03 62			26-107	AX	FG	N	С
OKYOL 31 3R00 1							
OKYOL551A001/							
OKYOL552A001/   572 580 1149   26-31							
OKYOR153U100/ 572 580 1149	0KY0L551A002/	572 621 0046	26-110	AF	DS	N	В
OKYOR153U102/ 572 580 1151							
0KYOR153U103/         572 580 1151         26. 43         AC         DJ         N         C           0KYOR153U104/         572 580 1152         26. 50         AC         DJ         N         C           0KYOR153U105/         572 580 1154         26. 52         AC         DJ         N         C           0KYOR153U152/         572 580 1155         26. 38         AC         DJ         N         C           0KYOR153U152/         572 580 1155         26. 45         AC         DJ         N         C           0KYOR153U222/         572 580 1158         26. 45         AC         DJ         N         C           0KYOR153U222/         572 580 1168         26. 45         AC         DJ         N         C           0KYOR153U222/         572 580 1169         26. 49         AC         DJ         N         C           0KYOR153U222/         572 580 1162         26. 40         AC         DJ         N         C           0KYOR153U272/5/572 580 1162         26. 40         AC         DJ         N         C           0KYOR153U273/5/572 580 1162         26. 40         AC         DJ         N         C           0KYOR153U273/5/572 580 1163         26. 41 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
OKYOR153U105/ 572 580 1153							
0KY0R153U123/         572 580 1154         26. 44         AC         DJ         N         C           0KY0R153U152/         572 580 1155         26. 38         AC         DJ         N         C           0KY0R153U152/         572 580 1157         26. 32         AC         DJ         N         C           0KY0R153U222/         572 580 1158         26. 33         AC         DJ         N         C           0KY0R153U222/         572 580 1169         26. 39         AC         DJ         N         C           0KY0R153U222/         572 580 1160         26. 46         AC         DJ         N         C           0KY0R153U223/         572 580 1161         26. 40         AC         DJ         N         C           0KY0R153U273/         572 580 1163         26. 47         AC         DJ         N         C           0KY0R153U331/         572 580 1163         26. 47         AC         DJ         N         C           0KY0R153U331/         572 580 1166         26. 35         AC         DJ         N         C           0KY0R153U3471/         572 580 1169         26. 36         AC         DJ         N         C           0KY0R153U471/	0KY0R153U104/						-
0KY0R153U152/         572         580         1155         26-38         AC         DJ         N         C           0KY0R153U153/         572         580         1156         26-45         AC         DJ         N         C           0KY0R153U221/         572         580         1158         26-32         AC         DJ         N         C           0KY0R153U222/         572         580         1159         26-39         AC         DJ         N         C           0KY0R153U222/         572         580         1160         26-46         AC         DJ         N         C           0KY0R153U272/         572         580         1161         26-51         AC         DJ         N         C           0KY0R153U273/         572         580         1162         26-40         AC         DJ         N         C           0KY0R153U373/         572         580         1162         26-41         AC         DJ         N         C           0KY0R153U332/         572         580         1165         26-41         AC         DJ         N         C           0KY0R153U333/         572         580         1165							
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OKYOR153U224/         572         580         1161         26-51         AC         DJ         N         C           OKYOR153U272/         572         580         1162         26-40         AC         DJ         N         C           OKYOR153U273/         572         580         1163         26-47         AC         DJ         N         C           OKYOR153U331/         572         580         1163         26-41         AC         DJ         N         C           OKYOR153U391/         572         580         1166         26-35         AC         DJ         N         C           OKYOR153U471/         572         580         1166         26-35         AC         DJ         N         C           OKYOR153U473/         572         580         1169         26-48         AC         DJ         N         C           OKYOR153U473/         572         580         1170         26-49         AC         DJ         N         C           OKYOR153U473/         572         580         1171         26-53         AE         DJ         N         C           OKYOR153U473/         572         580         1172							-
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OKYOR153U471/   572 580 1167   26-36							
0KY0R153U472/         572 580 1168         26- 42         AC         DJ         N         C           0KY0R153U473/         572 580 1169         26- 48         AC         DJ         N         C           0KY0R153U683/         572 580 1170         26- 49         AC         DJ         N         C           0KY0R163B564/         572 580 1171         26- 54         AD         DJ         N         C           0KY0R353U100/         572 580 1172         26- 54         AD         DJ         N         C           0KY0R353U102/         572 580 1173         26- 61         AD         DJ         N         C           0KY0R353U122/         572 580 1174         26- 62         AD         DJ         N         C           0KY0R353U181/         572 580 1176         26- 56         AD         DJ         N         C           0KY0R353U221/         572 580 1177         26- 57         AD         DJ         N         C           0KY0R353U221/         572 580 1177         26- 58         AD         DJ         N         C           0KY0R353U221/         572 580 1177         26- 57         AD         DJ         N         C           0KY0R353U221/							
0KY0R153U473/         572 580 1169         26- 48         AC         DJ         N         C           0KY0R153U683/         572 580 1170         26- 49         AC         DJ         N         C           0KY0R163B564/         572 580 1171         26- 53         AE         DJ         N         C           0KY0R353U100/         572 580 1173         26- 61         AD         DJ         N         C           0KY0R353U102/         572 580 1173         26- 61         AD         DJ         N         C           0KY0R353U153/         572 580 1175         26- 64         AD         DJ         N         C           0KY0R353U181/         572 580 1175         26- 64         AD         DJ         N         C           0KY0R353U221/         572 580 1177         26- 57         AD         DJ         N         C           0KY0R353U223/         572 580 1177         26- 57         AD         DJ         N         C           0KY0R353U231/         572 580 1179         26- 57         AD         DJ         N         C           0KY0R353U231/         572 580 1180         26- 57         AD         DJ         N         C           0KY0R353U271/							
0KY0R163B564/         572 580 1171         26-53         AE         DJ         N         C           0KY0R353U100/         572 580 1172         26-54         AD         DJ         N         C           0KY0R353U102/         572 580 1173         26-61         AD         DJ         N         C           0KY0R353U122/         572 580 1175         26-62         AD         DJ         N         C           0KY0R353U181/         572 580 1175         26-64         AD         DJ         N         C           0KY0R353U221/         572 580 1176         26-56         AD         DJ         N         C           0KY0R353U221/         572 580 1177         26-57         AD         DJ         N         C           0KY0R353U223/         572 580 1177         26-58         AD         DJ         N         C           0KY0R353U223/         572 580 1179         26-57         AD         DJ         N         C           0KY0R353U231/         572 580 1187         26-57         AD         DJ         N         C           0KY0R353U330/         572 580 1180         26-57         AD         DJ         N         C           0KY0R353U330/         5		572 580 1169					
0KY0R353U100/         572 580 1172         26- 54         AD         DJ         N         C           0KY0R353U102/         572 580 1173         26- 61         AD         DJ         N         C           0KY0R353U122/         572 580 1174         26- 62         AD         DJ         N         C           0KY0R353U181/         572 580 1175         26- 64         AD         DJ         N         C           0KY0R353U181/         572 580 1176         26- 56         AD         DJ         N         C           0KY0R353U221/         572 580 1177         26- 58         AD         DJ         N         C           0KY0R353U223/         572 580 1177         26- 58         AD         DJ         N         C           0KY0R353U271/         572 580 1179         26- 57         AD         DJ         N         C           0KY0R353U3302/         572 580 1180         26- 58         AD         DJ         N         C           0KY0R353U3303/         572 580 1180         26- 58         AD         DJ         N         C           0KY0R353U3303/         572 580 1180         26- 55         AD         DJ         N         C           0KY0R353U331/							
0KY0R353U102/         572         580         1173         26-61         AD         DJ         N         C           0KY0R353U122/         572         580         1174         26-62         AD         DJ         N         C           0KY0R353U153/         572         580         1175         26-64         AD         DJ         N         C           0KY0R353U221/         572         580         1177         26-56         AD         DJ         N         C           0KY0R353U221/         572         580         1177         26-57         AD         DJ         N         C           0KY0R353U223/         572         580         1177         26-58         AD         DJ         N         C           0KY0R353U241/         572         580         1179         26-57         AD         DJ         N         C           0KY0R353U330/         572         580         1179         26-57         AD         DJ         N         C           0KY0R353U330/         572         580         1180         26-55         AD         DJ         N         C           0KY0R353U330/         572         580         1182							
0KY0R353U122/         572         580         1174         26-62         AD         DJ         N         C           0KY0R353U153/         572         580         1175         26-64         AD         DJ         N         C           0KY0R353U181/         572         580         1176         26-56         AD         DJ         N         C           0KY0R353U221/         572         580         1177         26-58         AD         DJ         N         C           0KY0R353U223/         572         580         1177         26-58         AD         DJ         N         C           0KY0R353U221/         572         580         1177         26-58         AD         DJ         N         C           0KY0R353U271/         572         580         1179         26-58         AD         DJ         N         C           0KY0R353U330/         572         580         1180         26-55         AD         DJ         N         C           0KY0R353U330/         572         580         1180         26-55         AD         DJ         N         C           0KY0R353U330/         572         580         1182							-
0KY0R353U181/         572 580 1176         26-56         AD         DJ         N         C           0KY0R353U221/         572 580 1177         26-57         AD         DJ         N         C           0KY0R353U223/         572 580 1177         26-58         AD         DJ         N         C           0KY0R353U223/         572 580 1178         26-65         AD         DJ         N         C           0KY0R353U241/         572 580 1179         26-57         AD         DJ         N         C           0KY0R353U271/         572 580 1179         26-57         AD         DJ         N         C           0KY0R353U330/         572 580 1180         26-55         AD         DJ         N         C           0KY0R353U3392/         572 580 1181         26-63         AD         DJ         N         C           0KY0R353U821/         572 580 1183         26-60         AD         DJ         N         C           0KY0R353U392/         572 580 1183         26-60         AD         DJ         N         C           0KY0R353U392/         572 580 1183         26-60         AD         DJ         N         C           0KY0R353U392/							
OKYOR353U221/         572         580         1177         26-57         AD         DJ         N         C           "         572         580         1177         26-58         AD         DJ         N         C           OKYOR353U223/         572         580         1177         26-65         AD         DJ         N         C           OKYOR353U241/         572         580         1179         26-57         AD         DJ         N         C           OKYOR353U271/         572         580         1180         26-58         AD         DJ         N         C           OKYOR353U330/         572         580         1180         26-55         AD         DJ         N         C           OKYOR353U331/         572         580         1181         26-63         AD         DJ         N         C           OKYOR353U821/         572         580         1182         26-59         AD         DJ         N         C           OKYOR353U831/         572         580         1182         26-69         AB         DJ         N         C           OKYOR353U831/         572         580         1182         26-69							С
"         572 580 1177         26-58         AD         DJ         N         C           0KY0R353U223/         572 580 1178         26-65         AD         DJ         N         C           0KY0R353U241/         572 580 1197         26-57         AD         DJ         N         C           0KY0R353U271/         572 580 1180         26-58         AD         DJ         N         C           0KY0R353U330/         572 580 1180         26-55         AD         DJ         N         C           0KY0R353U331/         572 580 1181         26-63         AD         DJ         N         C           0KY0R353U431/         572 580 1182         26-59         AD         DJ         N         C           0KY0R353U821/         572 580 1183         26-60         AD         DJ         N         C           0KY0R353U821/         572 580 1183         26-60         AD         DJ         N         C           0KY0R353U821/         572 580 1183         26-60         AD         DJ         N         C           0KY0R353U821/         572 580 1183         26-60         AD         DJ         N         C           0KY0R362U100/         572 580 1186<							
0KY0R353U223/         572         580         1178         26-65         AD         DJ         N         C           0KY0R353U241/         572         580         1197         26-57         AD         DJ         N         C           0KY0R353U271/         572         580         1179         26-58         AD         DJ         N         C           0KY0R353U3392/         572         580         1180         26-55         AD         DJ         N         C           0KY0R353U431/         572         580         1181         26-63         AD         DJ         N         C           0KY0R353U431/         572         580         1182         26-59         AD         DJ         N         C           0KY0R353U431/         572         580         1183         26-69         AD         DJ         N         C           0KY0R353U431/         572         580         1183         26-69         AD         DJ         N         C           0KY0R353U431/         572         580         1183         26-66         AG         DX         N         C           0KY0R362U100/         572         580         1182							
0KY0R353U241/         572 580 1197         26- 57         AD         DJ         N         C           0KY0R353U271/         572 580 1179         26- 58         AD         DJ         N         C           0KY0R353U330/         572 580 1180         26- 55         AD         DJ         N         C           0KY0R353U3392/         572 580 1181         26- 63         AD         DJ         N         C           0KY0R353U431/         572 580 1182         26- 59         AD         DJ         N         C           0KY0R353U821/         572 580 1183         26- 60         AD         DJ         N         C           0KY0R362U100/         572 580 1183         26- 66         AG         DX         N         C           0KY0R451C121/         572 580 1185         26- 68         AE         DS         N         C           0KY0R451C220/         572 580 1186         26- 69         AE         DS         N         C           0KY0R451C222/         572 580 1189         26- 67         AE         DS         N         C           0KY0R451C222/         572 580 1189         26- 67         AF         DS         N         C           0KY0R452D100/							
0KY0R353U330/         572 580 1180         26-55         AD         DJ         N         C           0KY0R353U392/         572 580 1181         26-63         AD         DJ         N         C           0KY0R353U431/         572 580 1182         26-59         AD         DJ         N         C           0KY0R353U821/         572 580 1183         26-60         AD         DJ         N         C           0KY0R362U100/         572 580 1185         26-66         AG         DX         N         C           0KY0R451C101/         572 580 1185         26-68         AE         DS         N         C           0KY0R451C121/         572 580 1185         26-69         AE         DS         N         C           0KY0R451C220/         572 580 1189         26-67         AE         DS         N         C           0KY0R451C220/         572 580 1189         26-77         AF         DS         N         C           0KY0R451C220/         572 580 1189         26-77         AF         DS         N         C           0KY0R451C220/         572 580 1189         26-71         AF         DS         N         C           0KY0R452D100/         5	0KY0R353U241/	572 580 1197		AD		N	С
0KY0R353U392/         572 580 1181         26-63         AD         DJ         N         C           0KY0R353U431/         572 580 1182         26-59         AD         DJ         N         C           0KY0R353U821/         572 580 1183         26-60         AD         DJ         N         C           0KY0R362U100/         572 580 1184         26-66         AG         DX         N         C           0KY0R451C101/         572 580 1185         26-68         AE         DS         N         C           0KY0R451C121/         572 580 1186         26-67         AE         DS         N         C           0KY0R451C220/         572 580 1186         26-67         AE         DS         N         C           0KY0R451C222/         572 580 1189         26-67         AE         DS         N         C           0KY0R451C222/         572 580 1189         26-71         AF         DS         N         C           0KY0R452D100/         572 580 1189         26-71         AF         DS         N         C           0KY0R452D153/         572 580 1190         26-72         AF         DS         N         C           0KY0R452D473/         5							-
0KY0R353U431/         572         580         1182         26-59         AD         DJ         N         C           0KY0R353U821/         572         580         1183         26-60         AD         DJ         N         C           0KY0R362U100/         572         580         1184         26-66         AG         DX         N         C           0KY0R451C121/         572         580         1185         26-68         AE         DS         N         C           0KY0R451C220/         572         580         1187         26-67         AE         DS         N         C           0KY0R451C222/         572         580         1188         26-70         AF         DS         N         C           0KY0R452D100/         572         580         1189         26-77         AF         DS         N         C           0KY0R452D101/         572         580         1189         26-71         AF         DS         N         C           0KY0R452D153/         572         580         1190         26-72         AF         DS         N         C           0KY0R452D173/         572         580         1192							
0KY0R353U821/         572         580         1183         26-60         AD         DJ         N         C           0KY0R362U100/         572         580         1184         26-66         AG         DX         N         C           0KY0R451C101/         572         580         1185         26-68         AE         DS         N         C           0KY0R451C121/         572         580         1186         26-69         AE         DS         N         C           0KY0R451C220/         572         580         1188         26-67         AE         DS         N         C           0KY0R451C220/         572         580         1188         26-70         AF         DS         N         C           0KY0R452D100/         572         580         1189         26-67         AF         DS         N         C           0KY0R452D101/         572         580         1190         26-72         AF         DS         N         C           0KY0R452D153/         572         580         1191         26-73         AF         DS         N         C           0KY0R452D273/         572         580         1192							
0KY0R451C101/         572         580         1185         26-68         AE         DS         N         C           0KY0R451C121/         572         580         1186         26-69         AE         DS         N         C           0KY0R451C220/         572         580         1187         26-67         AE         DS         N         C           0KY0R451C222/         572         580         1189         26-70         AF         DS         N         C           0KY0R452D100/         572         580         1189         26-71         AF         DS         N         C           0KY0R452D101/         572         580         1190         26-72         AF         DS         N         C           0KY0R452D153/         572         580         1190         26-72         AF         DS         N         C           0KY0R452D273/         572         580         1191         26-73         AF         DS         N         C           0KY0R452D473/         572         580         1192         26-74         AF         DS         N         C           0KY0R452D663/         572         580         1193		572 580 1183					
0KY0R451C121/         572         580         1186         26-69         AE         DS         N         C           0KY0R451C220/         572         580         1187         26-67         AE         DS         N         C           0KY0R451C222/         572         580         1189         26-70         AF         DS         N         C           0KY0R452D100/         572         580         1189         26-71         AF         DS         N         C           0KY0R452D101/         572         580         1190         26-72         AF         DS         N         C           0KY0R452D153/         572         580         1190         26-73         AF         DS         N         C           0KY0R452D273/         572         580         1191         26-73         AF         DS         N         C           0KY0R452D473/         572         580         1192         26-74         AF         DS         N         C           0KY0R452D473/         572         580         1193         26-75         AF         DS         N         C           0KY0R452D683/         572         580         1193							
0KY0R451C220/         572         580         1187         26-67         AE         DS         N         C           0KY0R451C222/         572         580         1188         26-70         AF         DS         N         C           0KY0R452D100/         572         580         1189         26-67         AF         DS         N         C           0KY0R452D101/         572         580         1189         26-71         AF         DS         N         C           0KY0R452D153/         572         580         1190         26-72         AF         DS         N         C           0KY0R452D273/         572         580         1191         26-73         AF         DS         N         C           0KY0R452D473/         572         580         1192         26-74         AF         DS         N         C           0KY0R452D563/         572         580         1198         26-73         AF         DS         N         C           0KY0R452D563/         572         580         1193         26-75         AF         DS         N         C           0KY0R452D683/         572         580         1193							
0KY0R451C222/         572         580         1188         26-70         AF         DS         N         C           0KY0R452D100/         572         580         1189         26-67         AF         DS         N         C           "         572         580         1189         26-71         AF         DS         N         C           0KY0R452D101/         572         580         1190         26-72         AF         DS         N         C           0KY0R452D153/         572         580         1191         26-73         AF         DS         N         C           0KY0R452D273/         572         580         1192         26-74         AF         DS         N         C           0KY0R452D473/         572         580         1198         26-74         AF         DS         N         C           0KY0R452D563/         572         580         1198         26-75         AF         DS         N         C           0KY0R452D683/         572         580         1193         26-75         AF         DS         N         C           0KY0R516FR01/         572         580         1199         26-74							
OKYOR452D100/         572         580         1189         26-67         AF         DS         N         C           "         572         580         1189         26-71         AF         DS         N         C           OKYOR452D101/         572         580         1190         26-72         AF         DS         N         C           OKYOR452D153/         572         580         1191         26-73         AF         DS         N         C           OKYOR452D273/         572         580         1192         26-74         AF         DS         N         C           OKYOR452D473/         572         580         1198         26-73         AF         DS         N         C           OKYOR452D563/         572         580         1198         26-75         AF         DS         N         C           OKYOR452D683/         572         580         1193         26-75         AF         DS         N         C           OKYOR452D683/         572         580         1199         26-74         AF         DS         N         C           OKYOR516FR01/         572         580         1199         26-74							
0KY0R452D101/         572         580         1190         26-72         AF         DS         N         C           0KY0R452D153/         572         580         1191         26-73         AF         DS         N         C           0KY0R452D273/         572         580         1192         26-74         AF         DS         N         C           0KY0R452D473/         572         580         1198         26-75         AF         DS         N         C           0KY0R452D563/         572         580         1193         26-75         AF         DS         N         C           0KY0R452D683/         572         580         1193         26-75         AF         DS         N         C           0KY0R452D683/         572         580         1199         26-74         AF         DS         N         C           0KY0R516FR01/         572         580         1199         26-74         AF         DS         N         C           0KY0R516FR05/         572         580         1195         26-77         AR         EQ         N         C           0KY0R516FR15/         572         580         120			26- 67	AF	DS		С
0KY0R452D153/         572         580         1191         26-73         AF         DS         N         C           0KY0R452D273/         572         580         1192         26-74         AF         DS         N         C           0KY0R452D473/         572         580         1198         26-73         AF         DS         N         C           0KY0R452D563/         572         580         1198         26-75         AF         DS         N         C           0KY0R452D683/         572         580         1193         26-75         AF         DS         N         C           0KY0R452D683/         572         580         1199         26-74         AF         DS         N         C           0KY0R516FR01/         572         580         1194         26-76         AR         EQ         N         C           0KY0R516FR05/         572         580         1195         26-77         AR         EQ         N         C           0KY0R516FR15/         572         580         1200         26-77         AR         EQ         N         C           0KY0R522F100/         572         580         1196							
0KY0R452D273/         572         580         1192         26-74         AF         DS         N         C           0KY0R452D473/         572         580         1198         26-73         AF         DS         N         C           "         572         580         1198         26-75         AF         DS         N         C           0KY0R452D563/         572         580         1193         26-75         AF         DS         N         C           0KY0R452D683/         572         580         1199         26-74         AF         DS         N         C           0KY0R516FR01/         572         580         1194         26-76         AR         EQ         N         C           0KY0R516FR05/         572         580         1195         26-77         AR         EQ         N         C           0KY0R516FR15/         572         580         1200         26-77         AR         EQ         N         C           0KY0R522F100/         572         580         1196         26-78         AU         EZ         N         C           0KY0R854E102/         572         670         0182         26-79							
OKYOR452D473/         572         580         1198         26-73         AF         DS         N         C           "         572         580         1198         26-75         AF         DS         N         C           OKYOR452D563/         572         580         1193         26-75         AF         DS         N         C           OKYOR452D683/         572         580         1199         26-74         AF         DS         N         C           OKYOR516FR01/         572         580         1194         26-76         AR         EQ         N         C           OKYOR516FR05/         572         580         1195         26-77         AR         EQ         N         C           OKYOR516FR15/         572         580         1200         26-77         AR         EQ         N         C           OKYOR522F100/         572         580         1196         26-78         AU         EZ         N         C           OKYOR854E102/         572         670         0182         26-79         AG         DS         N         B           OKYOT351A005/         572         576         0529         26-20							
0KY0R452D563/ 572 580 1193 26- 75 AF DS N C 0KY0R452D683/ 572 580 1199 26- 74 AF DS N C 0KY0R516FR01/ 572 580 1199 26- 74 AF DS N C 0KY0R516FR05/ 572 580 1194 26- 76 AR EQ N C 0KY0R516FR15/ 572 580 1195 26- 77 AR EQ N C 0KY0R516FR15/ 572 580 1200 26- 77 AR EQ N C 0KY0R522F100/ 572 580 1196 26- 78 AU EZ N C 0KY0R854E102/ 572 670 0182 26- 79 AG DS N B 0KY0T351A005/ 572 576 0529 26- 20 AF DS N B	0KY0R452D473/	572 580 1198					
0KY0R452D683/       572       580       1199       26-74       AF       DS       N       C         0KY0R516FR01/       572       580       1194       26-76       AR       EQ       N       C         0KY0R516FR05/       572       580       1195       26-77       AR       EQ       N       C         0KY0R516FR15/       572       580       1200       26-77       AR       EQ       N       C         0KY0R522F100/       572       580       1196       26-78       AU       EZ       N       C         0KY0R854E102/       572       670       0182       26-79       AG       DS       N       B         0KY0T351A005/       572       576       0529       26-20       AF       DS       N       B         0KY0T415A003/       572       576       0530       26-17       AT       EZ       N       B							
0KY0R516FR01/       572       580       1194       26-76       AR       EQ       N       C         0KY0R516FR05/       572       580       1195       26-77       AR       EQ       N       C         0KY0R516FR15/       572       580       1200       26-77       AR       EQ       N       C         0KY0R522F100/       572       580       1196       26-78       AU       EZ       N       C         0KY0R854E102/       572       670       0182       26-79       AG       DS       N       B         0KY0T351A005/       572       576       0529       26-20       AF       DS       N       B         0KY0T415A003/       572       576       0530       26-17       AT       EZ       N       B							
0KY0R516FR05/       572       580       1195       26-77       AR       EQ       N       C         0KY0R516FR15/       572       580       1200       26-77       AR       EQ       N       C         0KY0R522F100/       572       580       1196       26-78       AU       EZ       N       C         0KY0R854E102/       572       670       0182       26-79       AG       DS       N       B         0KY0T351A005/       572       576       0529       26-20       AF       DS       N       B         0KY0T415A003/       572       576       0530       26-17       AT       EZ       N       B							
0KY0R516FR15/       572       580       1200       26-77       AR       EQ       N       C         0KY0R522F100/       572       580       1196       26-78       AU       EZ       N       C         0KY0R854E102/       572       670       0182       26-79       AG       DS       N       B         0KY0T351A005/       572       576       0529       26-20       AF       DS       N       B         0KY0T415A003/       572       576       0530       26-17       AT       EZ       N       B							
0KY0R854E102/       572       670       0182       26-79       AG       DS       N       B         0KY0T351A005/       572       576       0529       26-20       AF       DS       N       B         0KY0T415A003/       572       576       0530       26-17       AT       EZ       N       B	0KY0R516FR15/	572 580 1200	26- 77	AR	EQ	N	С
0KY0T351A005/ 572 576 0529 26- 20 AF DS N B 0KY0T415A003/ 572 576 0530 26- 17 AT EZ N B							
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0KY0T617A001/	572 576 0536	26- 19	BA	FX	N	В
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